

# CONNECT

## MAGAZINE



June 2023



# Table of Content

1. Opening Words.....	1
2. CCI Partnerships .....	2
3. Advising .....	17
4. Hosted Visits .....	19
5. Application Specialists Corner.....	20
6. Students Corner.....	23
7. Students' Achievements.....	27
8. Alumni Interviews .....	34
9. Impactful Events .....	36
10. Future Events .....	50
11. Emerging Technologies Around the UAE .....	51



# 1. Opening Words

Welcome to the third issue of CONNECT (June 2023), the magazine that celebrates the remarkable achievements and transformative impact of the College of Computing and Informatics at the University of Sharjah through meaningful connections with industry, community, and students. This is the second digital publication we produce in addition to our CASCADE magazine where we disseminate our faculty and students' success stories.

First and foremost, we will delve into the power of collaboration through our college partnerships. These partnerships have paved the way for groundbreaking initiatives, bridging the gap between academia and industry. Together, we are fostering innovation, creating opportunities for experiential learning and internships, and integrating employability skills in our programs. The connection with our students through advising activities has been instrumental in shaping their academic and professional journeys and our orientation events have served as gateways for incoming students, welcoming them into our vibrant College that embraces diversity and fosters growth.

Part of this magazine is allocated to our newly appointed application specialists, whose expertise and dedication have had a profound impact on the community. A number of applications have been developed to support University services and education in other colleges through the integration of artificial intelligence in some platforms and courses.

Our commitment to innovation and to student success remains unwavering. With a wide range of comprehensive support services, we ensure that each student has the tools they need to flourish academically, personally, and professionally. We celebrate the outstanding achievements of our students, applauding the numerous awards they have earned in various competitions.

Throughout the year, our College has hosted impactful events, some of which are in collaboration with other Colleges including the AI and Cyber Security weeks. Moreover, we have witnessed the rise of emerging technologies in UAE presented in this magazine, such as ChatGPT and drone technologies, which have revolutionized industries and opened up new frontiers of exploration.

Connect is also a gateway to our esteemed alumni, whose stories serve as a testament to the enduring impact of our College. Through interviews, we are reconnecting with our alumni, and celebrating their accomplishments.

As we reach the end of this opening, I extend my deepest gratitude to our faculty, staff, and students for their unwavering support, tireless efforts, and immense contributions during this academic year. Your dedication has shaped the trajectory of CCI and maximized our generated impact. We encourage each and every one of you to continue your remarkable work and create a lasting impact in the next academic year.

Welcome to Connect, where connections transform lives.



**Prof. Abbas Amira**  
Dean, College of Computing  
and Informatics



## 2. CCI Partnerships

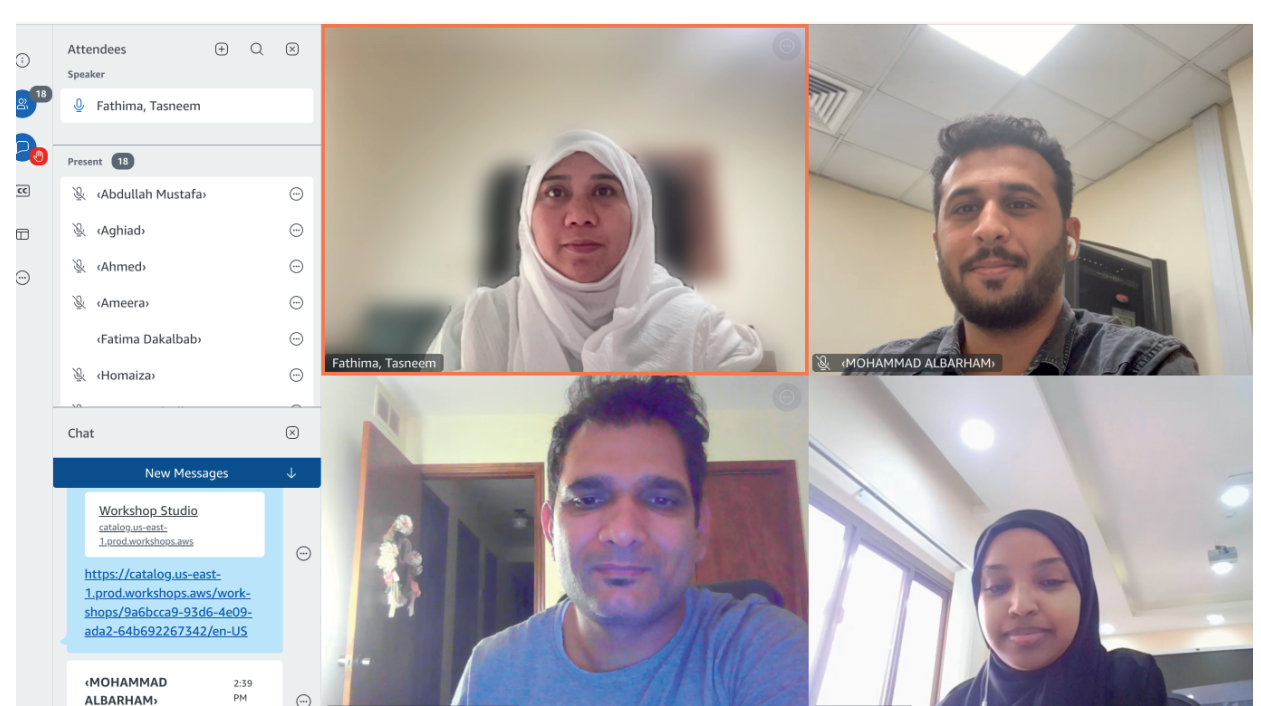
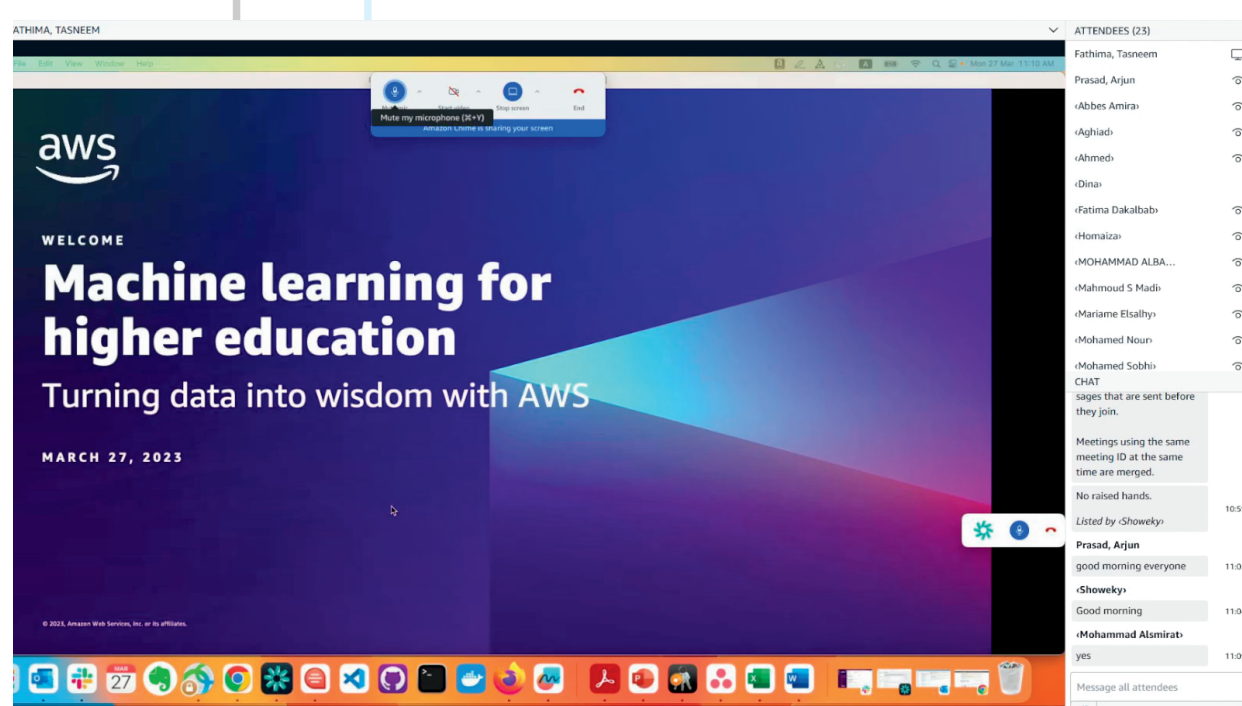
### Partnership with Amazon

College of Computing & Informatics has discussed a strong and long-lasting partnership with Amazon in presence of Chancellor Prof. Hamid Al Naimiy on Nov 17<sup>th</sup> at the University of Sharjah. The partnership includes employability, research, education, and technology in different areas such as cloud computing, quantum computing, high-performance computing, and artificial intelligence, among others.



### Amazon Sagemaker workshops

The College of Computing and Informatics at the University of Sharjah has collaborated with Amazon to facilitate a series of hands-on workshops on Amazon Sagemaker. This cloud computing platform is specifically designed for creating, modifying, and deploying machine learning models across various domains. The workshops provided an opportunity for faculty members, research assistants, and students to gain practical experience by applying different machine learning tools within the Sagemaker platform. These tools were utilized to solve demo problems that closely resembled real-life situations. By engaging in these interactive sessions, participants were able to develop their skills and effectively leverage Sagemaker for tackling real-world challenges.





## 2. CCI Partnerships

### Partnership with Huawei

#### Huawei delivers "Train the Trainers" workshop to lab engineers

The equipment from the UAE Huawei CSR program, called "Datacom & IdeaHub", has been installed in the college lab. The purpose of this equipment is to facilitate University students to learn Huawei Datacom and IdeaHub technologies through online/onsite learning programs and practicals at the lab. The college is grateful for this valuable partnership with Huawei. A Series of workshops will be delivered to equip our students with the latest technologies in the software market.



### HUAWEI is the main sponsor for CCI Open Day

As part of the visit of high school students to the UOS's College of Computing and Informatics to explore its departments and academic programs. Huawei is the main sponsor of the event and the programming competition. Huawei granted students several laptops and electronic devices during their visit to the company's pavilion.





## 2. CCI Partnerships

### Meeting with Cyber Wales to discuss strategic collaborations

A meeting was conducted with Sheikh Saeed bin Hamed Al Hamed and Mr. Faheem Azhar, the representative of CyberWales, along with key members of the College of Computing and Informatics (CCI) including Prof. Abbas Amira, the Dean, Prof. Zaher Al Aghbari, the Vice Dean, Prof. Mohamed Saad, the Assistant Dean for Graduate Studies, Prof. Ali ElMoursy, the Department Chair of Computer Engineering department, and Dr. Ala' Altaweel, the CCI point of contact with CyberWales. The meeting aimed to discuss the next steps after the MoU signing with CyberWales, which occurred in November 2022. One topic of discussion was how to enhance the employability of CCI students through collaboration with CyberWales. Additionally, the potential for CyberWales members to contribute to the CyberSecurity week, which will be organized by the CCI in March 2023 was discussed. Mr. Faheem Azhar, the CyberWales representative, generously agreed to participate and give a seminar during CyberSecurity Week. The discussions also covered how the teaching tools of CyberWales will enhance the theoretical backgrounds and hands-on experience of the students studying Bachelor of Science in CyberSecurity Engineering at CCI.



### UoS - Emirates NBD introductory strategic meeting

A delegation from the College of Computing and Informatics (CCI), consisting of Prof. Abbas Amira (Dean), Prof. Zaher Al Aghbari (Vice Dean), and Prof. Mohamed Saad (Assistant Dean for Grad Studies), visited the Emirates NBD Group's Meydan-AACOE offices to explore and enhance collaboration between CCI and Emirates NBD. Prof. Abbas Amira presented a proposal to Emirates NBD Group that included sponsoring Master's and Ph.D students, specifically in the MSc in Data Science program. Ray Richardson, the Head of Advanced Analytics Centre of Excellence at Emirates NBD, expressed keenness of the Emirates NBD group to work with Academia, especially with CCI, on different collaborative aspects, including joint research to find solutions to real world problems. During the meeting, a graduate student from the Department of Computer Science, Ms. Mariam, presented her paper synopsis on finding optimal locations for police stations within a city. The Emirates NBD team appreciated the idea and mentioned that it can be applied to find optimal locations for new ATM machines.



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## 2. CCI Partnerships

### Partnership with REC Foundation

We are excited to announce that we have recently formed a partnership with the REC Foundation as an event partner. This partnership signifies our commitment to promoting STEM education and providing opportunities for young people to develop their skills in robotics. As an event partner with the REC Foundation, we will have access to a range of resources and support, including training materials, mentorship, and access to robotics competitions. Our team is thrilled to work alongside the REC Foundation to provide students with opportunities to showcase their talents and connect with other like-minded individuals. We look forward to collaborating with the REC Foundation to continue promoting STEM education and inspiring the next generation of innovators and leaders in the field of robotics.



EVENT PARTNER

## Certificate

PRESENTED TO

**University of Sharjah**

The REC Foundation Event Partner Certification provides training and resources for hosting REC Foundation VEX IQ Challenge (VIQC), VEX Robotics Competition (VRC) and VEX U events.

02/06/2023  
Date

  
Dan Mantz  
CEO and Chairman of the Board





## 2. CCI Partnerships

### Visit to Honeywell - Dubai

Honeywell and UOS recently conducted a meeting with the aim of exploring potential collaboration between the two organizations. The meeting kicked off with a comprehensive tour of Honeywell's technology center located in Dubai. This tour provided UOS with an opportunity to gain insights into Honeywell's products, services, and smart solutions.

During the tour, Honeywell showcased their cutting-edge technologies, including smart metering and assistance in heavy industry production. UOS had the chance to witness the monitoring of assembly lines, production processes, and delivery services. Additionally, Honeywell introduced their latest material innovations, highlighting their unique features. The company also demonstrated their smart cities solutions, emphasizing how different urban services like airports, public transportation, sports arenas, homes, and business buildings can be linked together for enhanced safety, security, and convenience.

Moreover, Honeywell showcased their online and smart tracking devices, which are vital for efficient handling and shipping operations. The tour concluded with a focus on airplane, military, and airport services, solutions, and connectivity.

Following the tour, representatives from both Honeywell and UOS delivered a brief presentation. UOS proposed several areas of collaboration, including the signing of a Memorandum of Understanding (MoU) between the two parties. They also suggested the donation of a lab for training and teaching purposes, aimed at exposing UOS students to Honeywell's technologies. Additionally, UOS expressed interest in internship opportunities at Honeywell for their students and sought Honeywell's sponsorship for their Senior Projects and technology-related events and competitions. UOS also extended an invitation to Honeywell to join the College Board of their institution. Furthermore, UOS presented their SOTI and SAAST projects, exploring potential areas where Honeywell could contribute.

Honeywell appreciated UOS's proactive initiatives and expressed a willingness to explore the possibilities for each of the proposed collaborative initiatives. In response, UOS extended an invitation to Honeywell for a follow-up meeting at their campus to further explore the potential execution of these initiatives.





## 2. CCI Partnerships

### The University of Sharjah signs cooperation agreement with Bonuz

The University of Sharjah (UoS) has signed a joint cooperation agreement with Bonuz, a UAE-based Web3 Social Engagement Platform utilizing blockchain technology. The collaboration aims to train students from UoS's College of Computing and Informatics in cutting-edge skills and knowledge related to Blockchain, Web 3.0, and the Metaverse. The agreement was signed by Prof. Abbas Amira, Dean of the College of Computing and Informatics, and Matthias Mende, Founder and CEO of Bonuz.



The collaboration is seen as a way to strengthen the relationship between the university and the industry while providing students with valuable experience in the latest technologies such as Blockchain, Metaverse, and NFTs. Bonuz has already offered internships to four students, allowing them to work on the development of various Metaverse experiences and web interfaces.

Matthias Mende expressed excitement and honor in partnering with the University of Sharjah, emphasizing a long-term collaboration in educating young talents on blockchain-related topics. Dr. Mohamed Al Hemaury, Head of Technology Transfer Office, highlighted the importance of equipping students with the necessary skills and experiences sought after by the UAE market. The agreement includes close cooperation between Bonuz and UoS to provide hands-on internship opportunities, addressing the increasing demand for skilled graduates in Web3, blockchain, and the metaverse both in the UAE and globally.

Dr. Manar Abu Taleb, Chair of the Research Outreach Department, emphasized the College of Computing and Informatics' commitment to offering students the best internship experience to enhance their problem-solving skills. The internships with Bonuz exposed students to Web 3.0 tools, and they received their internship certificates as NFTs, which serve as permanent proof of ownership in the Blockchain records.



## 2. CCI Partnerships

### CCI and 42 Abu Dhabi meetings

The Committee chaired by Dr. Naveed Ahmed from the College of Computing and Informatics (CCI) at the University met with the Abu Dhabi team from 42 Abu Dhabi in two online meetings to discuss an articulation project. The first meeting took place on September 21, 2022, where the CCI committee members requested program details and syllabi for the modules offered by 42 Abu Dhabi.

The two committees did explore collaboration opportunities for student exchange and for delivering some courses in the areas of Programming, Networking, and Computer Graphics.



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# 42

أبوظبي  
**ABU DHABI**

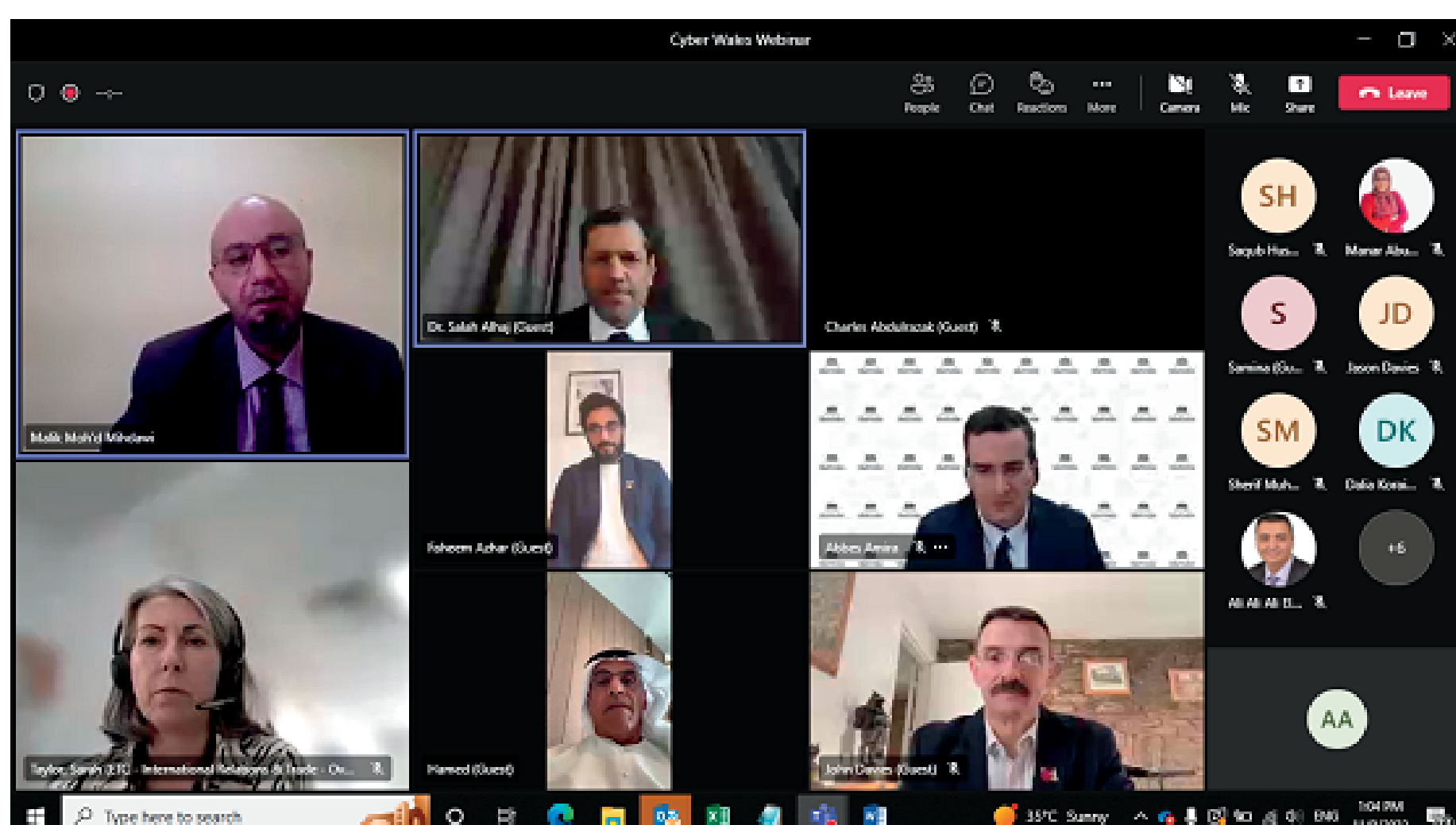
## 2. CCI Partnerships

### MOU signing between the University of Sharjah and Cyber Wales

The University of Sharjah signs a memorandum of understanding with the Cyber Wells Group, some of the major companies operating in the field of cybersecurity, signed by Prof. Abbas Amira, Dean of the College of Computing and Informatics, on behalf of the University of Sharjah, and on behalf of the Cyber Wells Group, Mr. John Davies, Co-Founder and Chairman of the Board of Directors, with the aim of strengthening cooperation in the field of cybersecurity, data protection and scientific research.

The University of Sharjah works to build bridges of cooperation between local and international bodies and institutions with the aim of serving and developing society through cooperation in studying issues of concern to society, working on studying them scientifically, and then providing applied scientific solutions to them.

The signed agreement provides for the cooperation of the two parties in exchanging information that will enhance existing research in the field of cybersecurity, and cooperation in organizing and participating in activities and events such as attending and organizing conferences, scientific seminars, workshops, and lectures. The two parties will also cooperate in conducting joint scientific research in cybersecurity and data protection.



## 2. CCI Partnerships

### Nvidia and CCI explore collaboration opportunities

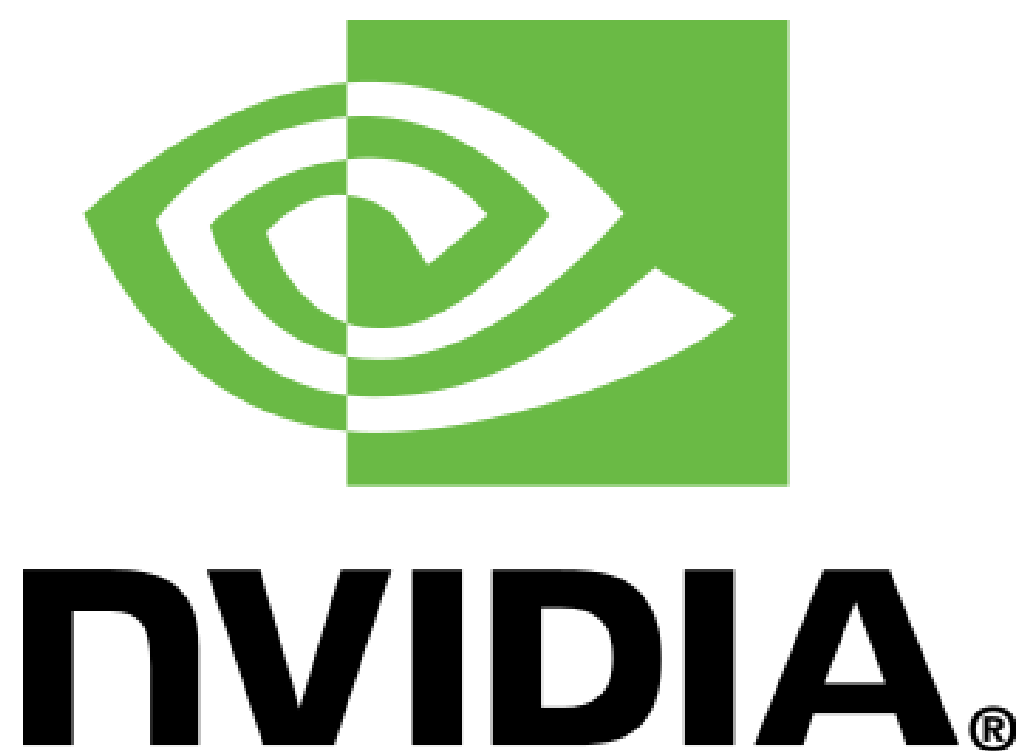
In a recent meeting between Nvidia and College of Computing and Informatics (CCI), representatives from both organizations came together to explore potential collaboration opportunities. Led by Mr. Sean McGuire from Nvidia, the meeting primarily focused on accessing Nvidia's Omni-Verse platform for digital twin applications and the possibility of adding University of Sharjah to Nvidia's AI Universities.

The Omni-Verse platform, known for its groundbreaking digital twin technology, offers a virtual representation of physical objects, systems, and processes for comprehensive analysis and simulations.

Recognizing the growing importance of AI, Nvidia and CCI discussed the potential for collaboration in AI education. Mr. Sean McGuire highlighted Nvidia's dedication to nurturing the next generation of AI talent and expressed interest in expanding their program to include University of Sharjah. This collaboration would offer students access to cutting-edge AI tools and platforms, as well as real-world industry challenges through internships, research collaborations, and expert lectures.



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## 2. CCI Partnerships

### Partnership with Sheraa

A meeting took place between CCI, and Sheraa to discuss collaboration opportunities and new initiatives related to entrepreneurship and innovation. It has been agreed at the meeting to organize a series of workshops for CCI students about startup fundamentals and entrepreneurship. In addition, it was agreed that Sheraa's members will attend the 'Made in CCI' event to evaluate the students' work.



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### SHERAA AI Forum

Artificial Intelligence experts and professionals from government and private sector entities including the College of Computing and Informatics at the University of Sharjah who are integrating AI systems in their operations have shared insights and real-life examples of the transformative power of AI in driving the economic growth of businesses in various sectors during a forum organized by the Sharjah Entrepreneurship Center (Sheraa).





## 2. CCI Partnerships

### Meeting with Ministry of Education to discuss employability skills

Meeting at the Ministry of Education to discuss employability skills and reform in computer science with different stakeholders.

Meeting attended by Prof. Abbas Amira, Dean of the College of Computing and Informatics and Prof. Saad Harous Head of Computer Science Department at the Ministry of Education on 4<sup>th</sup> May 2023.



### Meeting to explore collaborations between HelpAg and the College of Computing and informatics in Cyber Security

H.E. Abdulla Hashim, Sr. Vice President/ Special Projects, Etisalat (e&) group, and Stephan Berner Chief Executive Officer, HELP AG - Cybersecurity arm of e& enterprise, met on April 13<sup>th</sup> to discuss future collaborations including students recruitment and internship.





## 2. CCI Partnerships

### Meeting with MoE to discuss collaboration opportunities and the AI National Championship proposal

Meeting at the College of Computing and Informatics to discuss collaboration opportunities and preparation for the AI National Championship.

The meeting was attended by Prof. Abbas Amira, Dean of the College of Computing and Informatics, and H.E Dr. Amna Al Dahak Al Shamsi, Assistant Undersecretary for Care and Capacity Building at the Ministry of Education.



### JWEL-MIT workshop on architectures of learning

The JWEL-MIT workshop/training on architectures of learning was attended by Deans Prof. Abbas Amira and Prof. Mohamad Alameddine from the University of Sharjah.

The event took place over four days between 13-16 March 2023, focusing on architectures of learning (curriculum design, cognition/emotion, and space design).

Prof. Amira visited also the MIT Media Lab, FAB Lab, and Open Learning exploring different areas for collaboration and learning about different good practices at MIT.

The team from UoS presented two initiatives on “minor in smart sustainability” and a minor “research and innovation”.





## 2. CCI Partnerships

### Forging a Partnership: Computer Engineering Department and Police Academy

The Department of Computer Engineering at the College of Computing and Informatics recently met with the Police Academy to discuss an exciting collaboration focusing on cybersecurity and artificial intelligence. The meeting aimed to explore opportunities for knowledge transfer and joint initiatives between the two institutions.

One of the main goals of the collaboration is to offer specialized courses in cybersecurity and artificial intelligence. Both organizations recognize the growing importance of digital security and aim to equip law enforcement personnel with the necessary skills to combat cyber threats effectively.

Additionally, the collaboration will involve organizing joint events such as seminars, workshops, and conferences. These events will provide a platform for industry experts, academics, and law enforcement professionals to exchange knowledge and discuss emerging trends in the fields of cybersecurity and artificial intelligence.

Both parties expressed enthusiasm for the collaboration's potential and agreed to establish a working group to further develop the partnership.

By combining their expertise, the Department of Computer Engineering and the Police Academy are dedicated to shaping a secure and technologically advanced future, where cybersecurity and artificial intelligence work together to promote public safety.



### Exploring collaboration avenues: a meeting with Lucerne University of Applied Sciences and Arts

Prof. Abbas Amira, Dean of the College of Computing and Informatics and Dr. Murali Krishna from the Lucerne University of Applied Sciences and Arts, Switzerland, convened to discuss collaboration opportunities. There was a focus on student exchange, faculty mobility, and joint grant applications.



**HSLU** Lucerne University of Applied Sciences and Arts



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## 2. CCI Partnerships

### College of Computing & Informatics was part of Australian MoUs



Prof. Yousef Haik, the Vice Chancellor for Academic Affairs at the University of Sharjah (UOS), received a delegation from Australia with the aim of developing aviation education, cooperating in joint scientific research, developing scientific curricula, and providing training opportunities. The delegation consisted of Prof. Talal Yusaf, Executive Dean of Higher Education and Emerging Technologies at Aviation Australia, and Prof. Steve Hall, Dean of the School of Engineering and Technology at Central Queensland University (CQU), Australia. Faculty members from the College of Computing and Informatics attended the meeting and engaged in fruitful discussions to explore potential collaboration.

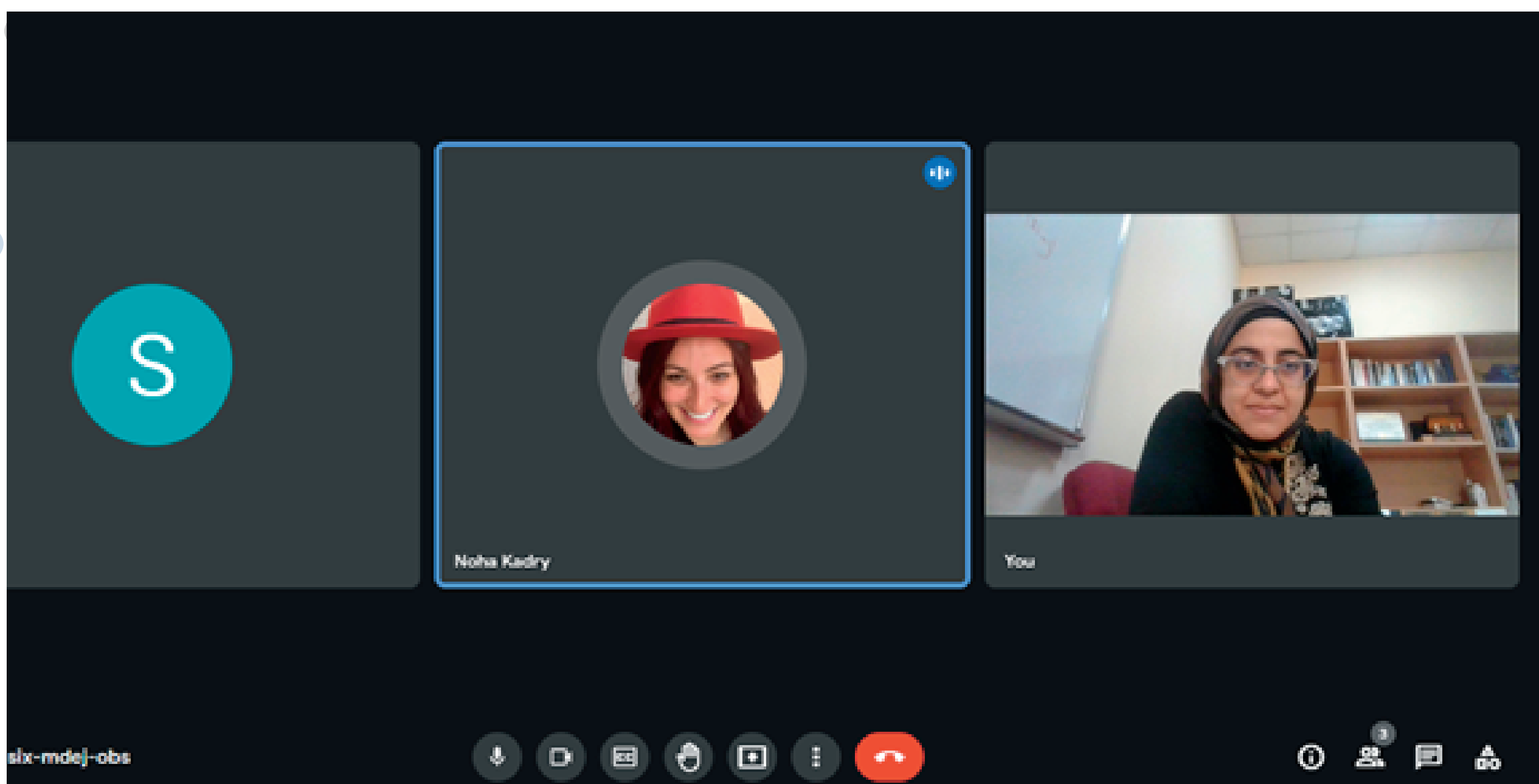
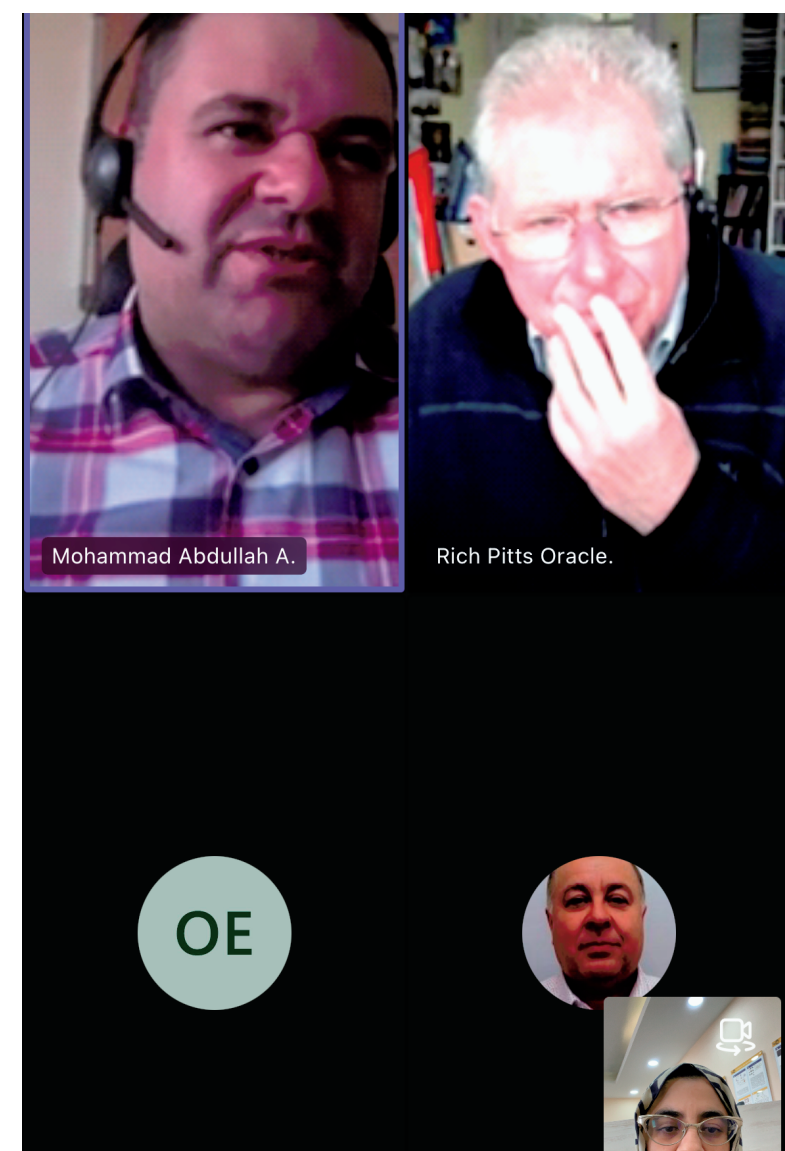




## 2. CCI Partnerships

### CCI partnership committee activities

The College of Computing and Informatics through its partnership committee held numerous meetings with its strategic partners, including Huawei, VMware, Oracle, Red Hat, Nvidia, and Amazon, to establish a clear roadmap for valuable collaboration on academia and research. This fruitful collaboration encompasses various areas, such as cloud computing, cybersecurity, artificial intelligence, machine learning, data science, the Internet of Things, and beyond.





### 3. Advising

#### New faculty orientation workshop about advising in Computer Engineering department

Dr. Ala' Altaweel conducted an orientation to advise the new faculty in the Computer Engineering Department on Thursday, September 29<sup>th</sup>, 2022. The orientation took around two hours and focused on advising the students who will be under the faculty's advising list in MyUDC. Several aspects were covered, such as how to find the faculty's advising list, academic calendars, the study plan for each student which needs to be fetched from the registration, the pre-requisite and co-requisite requirements, students under academic probation, the E-service system, waitlists, registration permissions, BlackBoard and MyUDC systems. The orientation also included hands-on experiences demonstrating different cases of the aforementioned topics to enhance the faculty's advising knowledge. Additionally, Dr. Ala' addressed different questions raised by the attending faculty.

#### New faculty members orientation workshop to discuss advising at the department of Computer Science

As per the mandate of the Student Success Committee at the CCI, and being the drivers for such success, another advising orientation was delivered to the new faculty at the Department of Computer Science, delivered by Dr. Mohammed Lataifeh. The session program was designed to familiarize new faculty with the established procedures for academic advising, as well as relevant systems, including course offerings, programs of study, registration systems, and policies.

During the orientation, the new faculty questions were clarified in relation to finding and managing their advisees in myUDC, as well as the important dates on the academic calendar. They were also advised on suggested meeting dates and frequencies per term to ensure their advisees are on the right track as per their program of study. Several other issues were addressed in relation to blackboard new interface, attendance policies and online exams. The new faculty were provided with a copy of the shared materials released from registration, as well as the department study plans for the undergraduate programs.



University of Sharjah  
 College of Computer & Information Systems  
 DEPARTMENT OF COMPUTER SCIENCE

## Department of Computer Science

College of Computing & Informatics, University of Sharjah

# IT Multimedia Degree


For New Students from Fall 2021/2022

1 <sup>st</sup> Year (Freshman)		2 <sup>nd</sup> Year (Sophomore)		3 <sup>rd</sup> Year (Junior)		4 <sup>th</sup> Year (Senior)	
1 <sup>st</sup> term	2 <sup>nd</sup> term	3 <sup>rd</sup> term	4 <sup>th</sup> term	5 <sup>th</sup> term	6 <sup>th</sup> term	7 <sup>th</sup> term	8 <sup>th</sup> term
Problem Solving 1501114 (3cr)	Programming I 1501116 (4cr)	Programming with Data Str 1501241 (3cr)	OO Soft Dev. & Imple 1501242 (3cr)	Intro to Mobile Dev 1501243 (3cr)	Networking Fundamentals 1501250 (3cr)	Project Management 1501431 (3cr)	IT App. in E-commerce 1501440 (3cr)
Graphic Design 1501240 (3cr)	Interactive Multimedia 1501242 (3cr)	Design & Authoring 1501244 (3cr)	MM Programming 1501247 (3cr)	Web to Artificial Int 1501330 (3cr)	Networking & Web 1501443 (3cr)	Game Dev. & Dev 1501444 (3cr)	MM Program Dev. 2 (3cr)
Introduction to IT 1501100 (3cr)	College Requirement (4)	Islamic Culture 1501400 (3cr)	Process of Writing 1501270 (3cr)	Web Programming 1501344 (3cr)	Introduction to Design 1501345 (3cr)	Dev. Of Web App 1501445 (3cr)	MM Program Dev. 3 (3cr)
Calculus I 1440131 (3cr)	University Elective I (3cr)	UAE Society 1501103 (3cr)	Statistics for Sciences 1440181 (3cr)	MM Junior Project 1501342 (3cr)	MM Junior Project 1501393 (3cr)	Information Security 1501450 (3cr)	MM Program Dev. 4 (3cr)
Arabic Language 1501102 (3cr)	University Elective II (3cr)	Computer & Society 1501227 (3cr)	Statistics Lab 1440180 (1cr)	MM Program Dev. 1 (3cr)	MM Program Dev. 1 (3cr)	MM Senior Project 1501496 (4cr)	
Eng for academic purposes 1501212 (3cr)			Final of Research & Group Assessment (3cr)				
34 Crd Hrs		31 Crd Hrs		29 Crd Hrs		29 Crd Hrs	



MS

Microsoft Word



SD

Google Docs



Google Slides



Google Meet



MM

Microsoft Excel



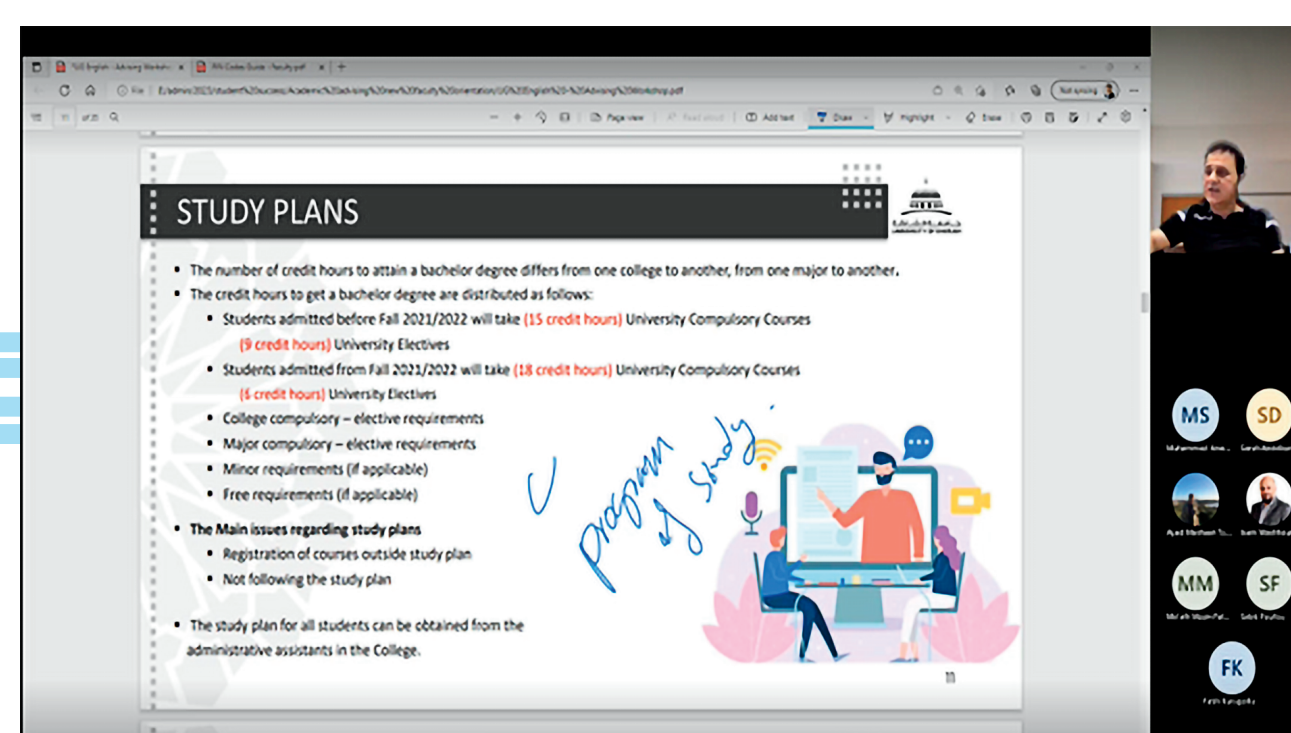
SF

Google Classroom



FK

Facebook



STUDY PLANS
<ul style="list-style-type: none"><li>The number of credit hours to attain a bachelor degree differs from one college to another, from one major to another.</li><li>The credit hours to get a bachelor degree are distributed as follows:<ul style="list-style-type: none"><li>Students admitted before Fall 2021/2022 will take (15 credit hours) University Compulsory Courses</li><li>Students admitted from Fall 2021/2022 will take (18 credit hours) University Compulsory Courses</li></ul></li><li>University Electives<ul style="list-style-type: none"><li>College compulsory – elective requirements</li><li>Major compulsory – elective requirements</li><li>Minor requirements (if applicable)</li><li>Free requirements (if applicable)</li></ul></li><li>The Main issues regarding study plans<ul style="list-style-type: none"><li>Registration of courses outside study plan</li><li>Not following the study plan</li></ul></li><li>The study plan for all students can be obtained from the administrative assistants in the College.</li></ul>



### 3. Advising

#### New students orientation at the College of Computing and Informatics

In welcoming the new students of 2022-2023, the College of Computing and Informatics had its orientation meeting with students. The event was organized by the college committee dedicated for Students' Academic Success, chaired by Prof. Abbas Amira, the CCI Dean, and attended by heads of departments, faculty, and newly registered students.

In his welcoming remarks, the dean highlighted the progress and achievements the college has made over the past three years, particularly the new programs offered across the three departments at undergraduate and graduate levels in the areas such as artificial intelligence, cybersecurity engineering, biomedical informatics, data science, and business analytics. The dean emphasized the diverse expertise of the faculty in the college, which includes a range of domain expertise and research interests, that open doors for students to learn from and engage in interdisciplinary activities. The talk was followed by short presentations by the department chairs welcoming the students and encouraged them to build a close relationship with their academic advisors to be mentored towards success. Representing the committee, Dr. Mohammed Lataifeh briefly explained the critical value of establishing and maintaining close connections with academic advisors for a smooth learning journey.

Furthermore, CCI senior student's presentation covered several clubs and associations that are led by students. The new students have been invited and encouraged to join the CCI associations and clubs.





## 4. Hosted Visits

### Visit of Prof. Kamal Toumi, Professor at MIT and member of UoS Board of Trustees to the CCI interdisciplinary lab

We are delighted to share news of a recent visit from Prof. Kamal Youcef-Toumi, a member of the Board of Trustees at the University of Sharjah (UOS) and a professor at the Massachusetts Institute of Technology (MIT). During his visit, we had the opportunity to introduce Prof. Youcef-Toumi to our CCI Interdisciplinary Lab and provide him with an overview of our ongoing projects, research, and robotics competitions. As an expert in the field of robotics, Prof. Youcef-Toumi shared his technical expertise and insights, offering his opinion on our work and suggesting possible future improvements. The visit was a valuable opportunity for us to engage with an esteemed member of the academic community, and we look forward to further collaboration and exchange of ideas with Prof. Youcef-Toumi and UOS in the future.



#### Other Visitors:

- Prof. Moncef Gabbouj, Tampere University, Finland
- Prof. Ashiq Anjum, University of Leicester, UK
- Prof. Robert Hoehndorf, KAUST, KSA
- Prof. Sakir Sezer, Queen's University Belfast, UK
- Prof. Xiaohui Yuan, University of North Texas, USA
- Prof. Zoran Kostic, Columbia University, New York, USA
- Dr. Youssef Elmir, École supérieure en Sciences et Technologies de l'Informatique et du Numérique, Algeria.
- Dr. Slimane Larabi, University of Science and Technology Houari Boumediene, Algeria.
- Mr. Azzouzi Oussama, University Center of Aflou, Algeria



## 5. Application Specialist Corner

### Biography:

Omar M. Gouda is a highly skilled Applications Specialist. He has earned both his Bachelor's and Master's of Science in Computer Engineering from the University of Sharjah. With the several years of experience in the field, Omar obtained a number of skills such as Leadership, Project Management, Communication, Collaboration, and Quick Study. Additionally, he is experienced with Artificial Intelligence, Augmented Reality, DevOps, Kubernetes, Cyber Security, and Application Development.

Omar has extensive experience working as software engineer, having worked in the Scientific Publishing Unit (SPU) at the University of Sharjah, where he introduced and customized the Open Journal System (OJS), increasing the number of submitted transcripts to SPU by around 70% within the first year of deploying OJS.

Before his joining to the College of Computing and Informatics, Omar was a Security Researcher at the OpenUAE Research and Development Group, where he has collaborated with several external organizations, including DESC, DEWA, GCAA, and RTA, to plan and build open-source software/hardware systems to improve the efficiency within the organization. Additionally, Omar has led and trained junior research

assistants on real projects and conducted several workshops and talks related to the computer fields, especially for university students and professors. he has conducted and published more than seven scientific papers in various fields including Artificial Intelligence, Cybersecurity, Internet of Things, Deepfakes, and Image Forensics.

### Role:

Eng. Omar M. Gouda joined the College of Computing and Informatics (CCI) with the primary responsibility of facilitating and nurturing effective collaboration and cooperation between CCI and UoS colleges. This role is crucial in fostering a culture of teamwork and interdisciplinary exchange to achieve common goals and enhance the overall efficiency and effectiveness of the colleges. Moreover, Omar works closely with the faculty members to identify educational needs and develop tools, platforms, and applications that leverages the latest tools and technologies to enhance teaching and learning within the University.

### Activities:

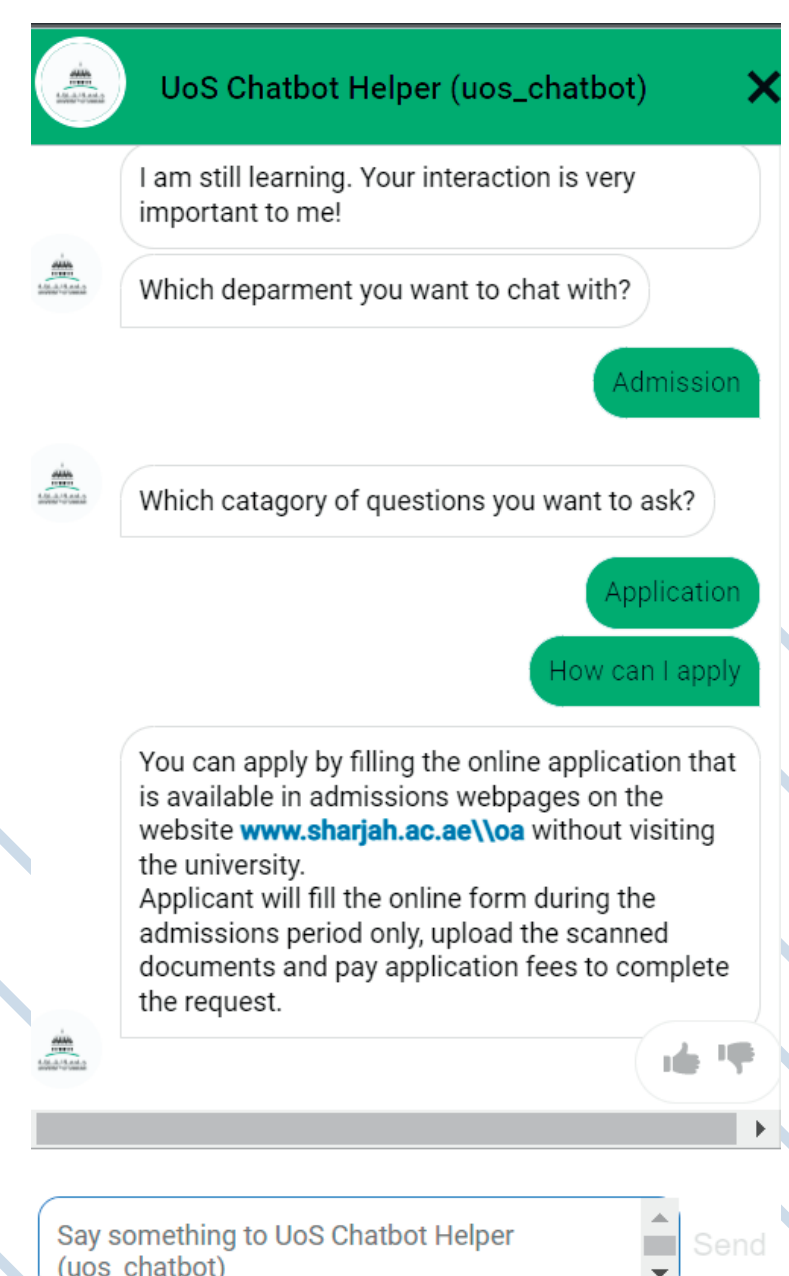
Internships have become a crucial step in a student's academic journey. Not only do they provide hands-on experience, but they also offer a glimpse into the real-world work environment. However, finding the right internship can often be a daunting task, especially with the overwhelming amount of information available online. This is where the chatbot developed under the Vice Chancellor of Academic Affairs' (VCAA) office in collaboration with College of Computing and Informatics (CCI) comes in.

The chatbot is an AI-based application that works by analyzing the text input by the student and comparing it to a database of frequently asked questions related to internships. The bot is programmed to learn and improve its responses over time through continuous feedback from the users. The first prototype of the chatbot was focused solely on internships. However, as the chatbot gained popularity and positive feedback from the stakeholder, the registration and admission departments became interested in its potential. This interest sparked a collaboration between the departments to expand the chatbot to include their respective frequently asked questions as well.

The chatbot is available to students across different colleges, offering a centralized platform for all inquiries related to internships, admissions, and registration. The chatbot is launching this June and can be accessed through the university's website. This makes it easier for students to get the information they need, regardless of their location or device. The chatbot offers a wide range of services, including providing information on internship companies, application procedures, eligibility criteria, deadlines, admissions criteria, and registration procedures. The chatbot can also assist with queries related to the university, such as admission requirements, campus life, and more. The bot can also provide guidance on what to expect during the admission process, and how to register for courses.



Eng. Omar M. Gouda  
Application Specialist





## 5. Application Specialists Corner



**Eng. Mahmoud Samy Madi**  
**Application Specialist**

### **Biography:**

Mahmoud Samy Madi graduated with a Bachelor's degree in Electrical and Electronics Engineering from the University of Sharjah in 2022, with first-class honors and with a CGPA of 3.92. He was also awarded the Emirates Development Award for being the distinguished university student in the UAE in 2021.

Mahmoud has been actively involved in robotics competitions and studies since 2014, with extensive experience in participating, training, judging, and organizing events at national, regional, and international levels. His track record as a participant includes 17 awards at the UAE level, 2 awards at the regional level, and another 2 awards at the international level.

In addition to his experience as a participant, Mahmoud has collaborated with various organizations, including the Ministry of Education, Ajman X, University of Sharjah, Schools, Telecommunications and Digital Government Regulatory Authority (TDRA), Emirates Science Club, and more as a trainer. He has also been responsible for judging 15 competitions and events, both nationally and internationally. Mahmoud is a member of different organizations, including the International RoboCup Organizing Committee and the UAE Inventors Association.

Mahmoud's passion for robotics extends beyond his experience, and he is willing to engage with students and organize activities related to robotics, including national and international competitions. He is a dedicated engineer who is keen to enhance the workplace experience for both faculty and students.

### **Role:**

Eng. Mahmoud Samy Madi joined the University of Sharjah in January 2023, with a mission of supporting collaboration between the College of Computing and Informatics (CCI) and other Colleges at the University of Sharjah (UoS). Mahmoud's primary focus is on the development of robotics and hardware-related solutions for teaching and education purposes. Mahmoud's technical expertise in robotics and hardware development allows for the implementation of innovative solutions that enhance the learning experience. Through providing valuable support and guidance, Mahmoud ensures that the University embraces cutting-edge technologies, empowering educators and students alike to excel in the ever-evolving field of robotics and education.

### **Activities:**

Eng. Mahmoud's efforts in promoting robotics education and providing opportunities for students to engage in robotics activities have led to great achievements. One of the achievements is securing sponsorship from VEX Robotics during the CCI Open Day. The event was a huge success and attracted high school students from all the visitors.

The CCI Open Day featured a robotics competition and a robotics programming workshop, which aimed to introduce high school students to the world of robotics, programming, computer science, and technology. The event encouraged students to explore their interests and pursue careers in these exciting fields. The college's focus to promoting robotics education has not only inspired and motivated students but has also provided them with valuable learning opportunities.





## 5. Application Specialists Corner

### Biography:

Eng. Dina Hejji is an experienced computer engineer with exceptional problem-solving, leadership, and time management skills, holding a Bachelor of Science and a Master's degree in Computer Engineering from the University of Sharjah. She has built a strong foundation in project management, artificial intelligence, database, application development, and various programming languages.

During her tenure of 2.5 years as a senior engineer at Etisalat Telecommunications, Dina handled topmost critical regional projects for business services provided by Etisalat. She designed and executed over 20 business projects, demonstrating her commitment to delivering high-quality results while upholding the highest standards of professionalism.

Her professional experience also includes working as a Research Assistant in the OpenUAE Research & Development Group at the University of Sharjah, where she developed and implemented various software and hardware projects in collaboration with OpenUAE group ambassadors such as DESC, TRA, and RTA. She published five research papers in topics related to Artificial Intelligence, Machine Learning, Image classification, and Cyber Security. Additionally, Dina holds several certificates, including Information Systems Auditing, Certified Information Systems Auditor (CISA) Training, Managing Huawei's GPON Network, and advanced digital hardware design training.



Eng. Dina J. R. Hejji  
Application Specialist

### Role:

Eng. Dina is currently employed as an application specialist at the University of Sharjah, where she holds a crucial position in facilitating the artificial intelligence and computing tasks related to high energy and particle physics courses in the College of Sciences (CoS) through the development of innovative teaching platforms.

Her role entails offering valuable assistance to undergraduate and postgraduate students from both colleges, operating under the guidance of CoS and CCI faculty members in various aspects related to the ongoing CERN-CoS collaboration. Dina actively collaborates with faculty members to conceive and create cutting-edge teaching tools and applications that foster a progressive approach to education, ultimately driving the progress of knowledge and the exploration of emerging technologies.

### Activities:

Dina is currently developing a groundbreaking platform called "AI in HEP" (Artificial Intelligence in High Energy Physics) under the collaboration of CERN-UOS. This project has the potential to revolutionize the learning experience and problem-solving approach of students in the field of physics.

Tailored specifically to meet the needs of the physics community, the "AI in HEP" platform will integrate cutting-edge machine learning techniques. By harnessing the power of machine learning, students will acquire the ability to uncover intricate patterns and gain insights from complex datasets that would otherwise be challenging or impossible to discern.

The primary focus of the "AI in HEP" platform is to enhance the delivery of courses in high energy physics within the College of Sciences at the University of Sharjah. By utilizing innovative teaching tools, this platform aims to transform the way students engage with the subject matter. It empowers students to tackle intricate physics problems, explore data analysis, and deepen their understanding of high energy physics concepts.





## 6. Students Corner

### Students participation in transform ideas into reality Hackathon 2023

Students from the College of Computing and Informatics recently participated in the "Transform Ideas Into Reality Hackathon 2023" organized by 5IRE and Abu Dhabi University. The event, held at Abu Dhabi University Innovation Center on May 11<sup>th</sup>, brought together students from various academic institutions across the UAE.

The hackathon aimed to foster collaboration and innovation, providing students with resources, expert guidance, and networking opportunities. Participants were encouraged to approach challenges creatively and think from different angles. Their remarkable projects showcased their talent and ability to tackle real-world issues.

This hackathon emphasized the significance of collaborative efforts and highlighted the promising future of computing and informatics in the UAE.



### IEEE Open Day

IEEE Open Day Event organized by the IEEE Computer Society Club. The IEEE Computer Society club president and vice-president presented a presentation about the club to update the students about the events that the club participated in and to encourage students to join the club. The members of the club that participated in organizing the engineering day event received their certificates from the dean, the head of the Computer Engineering Department, and our club's supervisor. We prepared a set of activities such as the hangman, the kahoot, and the scribble io to engage the students with the club members.





## 6. Students Corner

### **Senior students' projects were presented in presence of Vice Chancellor of Academic Affairs Prof. Yousef Haik and Dean Prof. Abbas Amira**

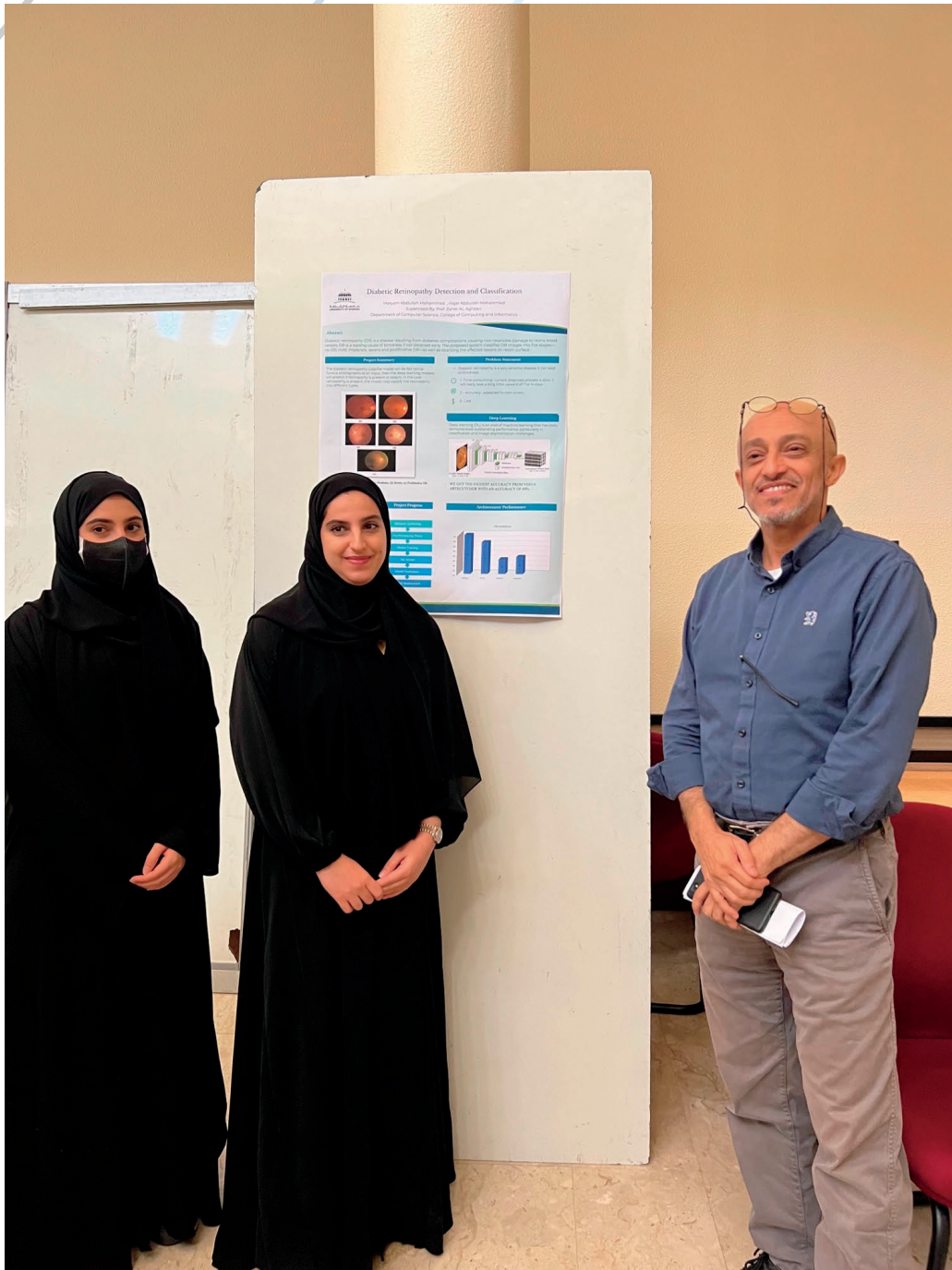
The Department of Computer Science at the College of Computing and Informatics (CCI) celebrated another significant event this term (Fall 2022-2023), which consisted of presenting the Senior Projects of the final year students in both the Computer Science and IT Multimedia programs. The event was held on Friday, December 9<sup>th</sup>, 2022 in W8 Ibn-Al Nafees Hall from 9:00 AM to 3:30 PM. It was Attended by the VCAA at the University of Sharjah and a large audience from the Computing College and external guests invited by students. A total of eighteen groups of students (between two to four students per team) gathered at this event to present a variety of applications based on cutting-edge technologies in fields such as Computer Vision, VR/AR Applications, Location-Based Services, e-Commerce, Social Data Mining, and Eco-Friendly applications, among others. The event was followed by a Poster Session and Open Q&A session, where all students were present to demonstrate their work and to answer questions in the main hallway of W8 building.

- Navigating in world-scale VR
- UoS Dorm Services Application
- Education In The Metaverse
- Monitoring and Surveillance System
- Alzheimer's Disease Early Detection Using Machine Learning Techniques
- AI Diet Consultant
- Study plan advising
- Hate Speech Detection from Arabic Social Media
- Re-Designing the University of Sharjah Library using AR
- A Web-based (or mobile-based) Multi-stop Trip Planner
- Diabetic Retinopathy Detection and Classification
- Asthma attacks detection using thermal imaging and Artificial Intelligence
- Smart Parking Finding System
- RIO Game Engine
- COVID Contact Tracing Mobile App
- ADHD Screening and Diagnosis using Electroencephalography (EEG) and Deep Learning
- A Web-based (or mobile-based) Car Park Reservation System
- iPrice Application

On behalf of the VCAA, Prof. Abbas Amira; the Dean of the College of Computing and Informatics stated that this achievement is an important milestone in students' academic journey. Many projects were highly recommended by the VCAA, peers, and examiners to represent the College and University of Sharjah at different National and International venues, competitions, and conferences.



## 6. Students Corner

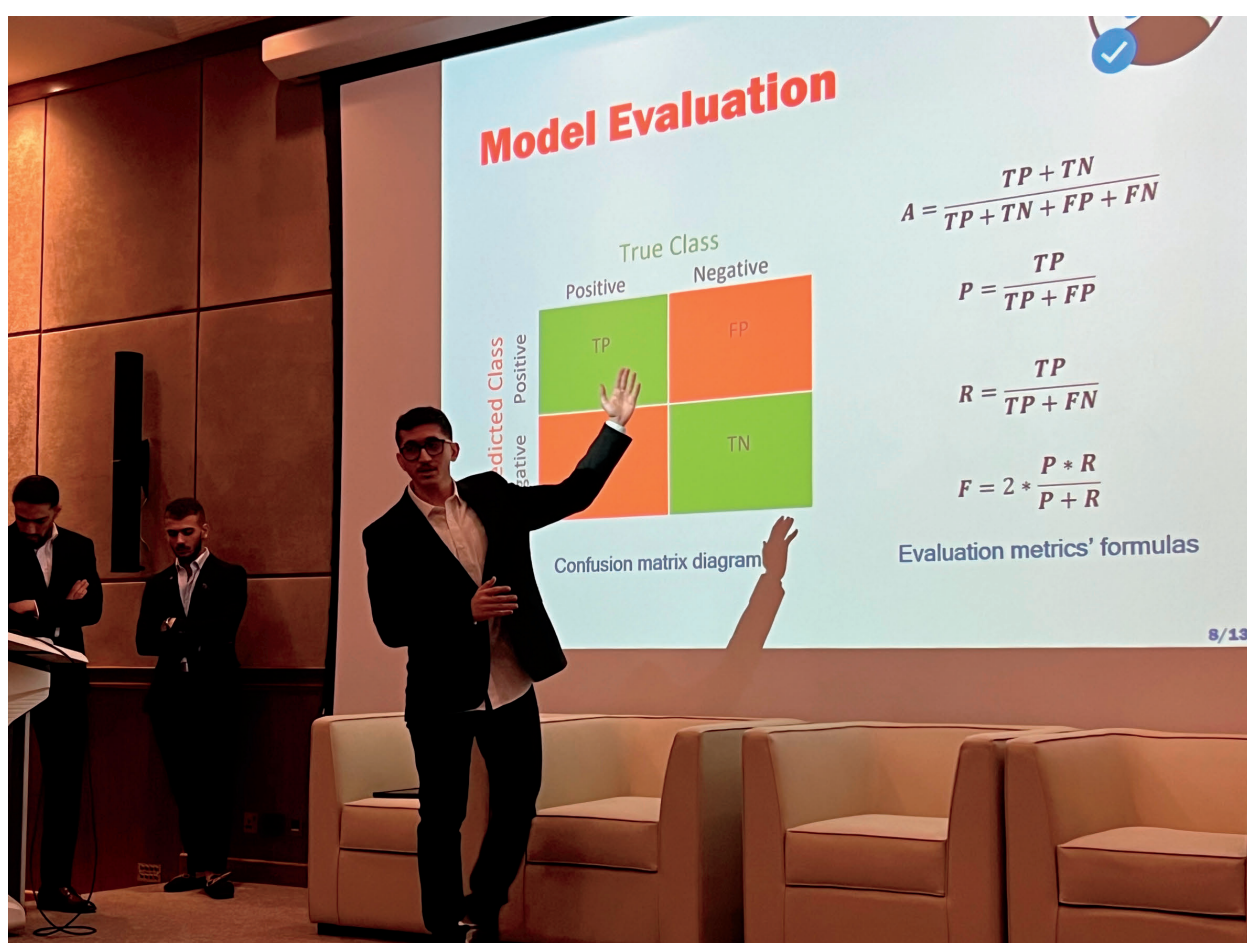




## 6. Students Corner

### Senior Computer Engineering presentations

For three days, from November 28<sup>th</sup> to November 30<sup>th</sup>, 2022, the Department of Computer Engineering conducted an event to present the senior design projects of the senior students in the department. Nineteen groups of three students each presented their progress in SDP1 and their final demos of SDP2 to their examination committee, which involved one supervisor and two examiners, as well as an audience of students' families, staff members, lab engineers, and junior students in the department. The presented demos showcased various software and hardware projects that employed different algorithms in Artificial Intelligence, Machine Learning, Cybersecurity, Robotics, and other area. The event also aimed to sharpen the students' soft-skills in terms of technical presentation skills, communication skills, critical thinking, and problem solving techniques.





## 7. Students Achievements

### Celebrating the great achievement of UoS students winning the first place in the Gulf Programming Contest

In recognition of their recent outstanding success at the Gulf Programming Contest, the Dean of Computing and Informatics, Prof. Abbas Amira, honored the University's participating teams in his office. The Dean also congratulated the Senior team, j++, consisting of students: Yaser Alesh, Abdalrahman ElSheikh, and Kamel Samara, for securing First Place at the 10<sup>th</sup> edition of the contest held in Muscat, Oman on Nov 2<sup>nd</sup>, 2022.

His Excellency, Prof. Hamid Al Naimiy, the Chancellor of the University of Sharjah, congratulated the team on their remarkable performance and highlighted the significance of this win for the University of Sharjah.

The Dean also recognized the Junior team, Sulaf Hallak and Niaz Mahmud, for their participation in the competition for the first time. The celebration was attended by the founders of the Gulf Programming Contest: Prof. Saad Harous, the Head of the Computer Science Department, and member of the Gulf Programming Contest Steering Committee, Dr. Abdullah Hussein, faculty of the Computer Science Department and Head of the Gulf Programming Contest Steering Committee, and the participating team's coach, Ms. Sarah Darwish, Lecturer in the Department of Computer Science.





## 7. Students Achievements

### Winning students in competitions

Prof. Abbas Amira, Dean of CCI would like to extend his warmest congratulations to the winning teams who won recently several prizes in different competitions.

#### 1) 3M Competition:

- Maha Murad Khalil Abu Serdaneh
- Tamara Ahmad Omar Nasro

have won the voting prize for 3M competition- SDP Category



#### 2) IEEE UAE Day 2023

Computing and Robotics Category:

The below team has won the first place

**Project:** ARMO (Human Arm controlled Articulated robotic arm)

**Students:**

- Maha Murad Khalil Abu Serdaneh
- Tamara Ahmad Omar Nasro
- Sara Obaid Mohamed Alnaqbi

**Supervisor:** Prof. Ali ElMoursy

**Mentor:** Eng. Maha AlaaEddin





## 7. Students Achievements

### 3) Made in CCI exhibition: Department of Computer Science:

**First Place:** Project: ADHD Screening and Diagnosis using Electroencephalography (EEG) and Deep Learning.

**Students:**

- Aseel A. Mohamed Eljack
- Hafsa A. Ahmed
- Raghad M. Aldamani
- Supervisor: Dr. Mohammed Lataifeh



**Second Place:** Project: Smart Parking Finding System.

**Students:**

- Omar Mahdi Suleiman Altahaineh
- Supervisor: Dr. Ibrahim Abaker



**Third Place:** Project: Hate Speech Detection from Arabic Social Media.

**Students:**

- Ramzi Khezzar
- Abdelrahman A. Moursi Ali
- Supervisor: Prof. Zaher Al Aghbari





## 7. Students Achievements

### 3) Made in CCI exhibition: Department of Computer Engineering:



**First Place:** Project: ARMO (Human Arm controlled Articulated robotic arm).

**Students:**

- Maha Murad Khalil Abu Serdaneh
- Tamara Ahmad Omar Nasro
- Sara Obaid Mohamed Almaqdahi Alnaqbi
- Supervisor: Prof. Ali EIMoursy,
- Mentor: Eng. Maha AlaaEddin



**Second Place:** Project: SurgoTech: surgeon health monitoring and assistance system.

**Students:**

- Raghad Alsheikh
- Omnia Salem
- Zainab Mohammad
- Supervisor: Prof. Ali EIMoursy
- Mentor: Eng. Hassan Vakani



**Third Place:** Project: GestPret: AI-Based Sign Language Interpreter

**Students:**

- Hind Alzarooni
- Hessa Al Ali
- and Salma Fadaaq
- Supervisor: Dr. Talal Bonny
- Mentor: Eng. Hassan Vakani



## 7. Students Achievements

### 4) First Global Innovation Forum X.O:

Our students won the second and the third place in “**Technological Solution for Digital Smart Green Society**” Competition that is organized by the Office of Vice Chancellor for Academic Affairs:

**Second place** Project name: BetterFly

1500 AED from Beeah/10,000 AED business support from Sheraa

- Aseel A. Mohamed Eljack
- Hafsa A. Ahmed
- Raghad M. Aldamani
- Supervisor: Dr. Mohammed Lataifeh

**Third place** two projects who won 1000AED from Beeah/10,000AED business support from Sheraa for each project

#### **Team #1**

Biomaster project

Team members:

- Raghad Alsheikh
- Qasem Al-Yafeai
- Mohamed Mahmoud
- Ahmed Ammar
- Hagar Hossam
- Abdulqader AlHarthi

#### **Team #2**

Project name: MedItAll

Team members:

- Tamara Ahmad
- Maha Murad Abu Serdaneh
- Yazan Mohammad Baker Rihan
- Ismail Zein
- Ahmed Alsuwaidi
- Mohamed Mahmoud Abdelmonem
- Supervisor: Dr. Manar Abu Talib





## 7. Students Achievements

### CCI teams won in UAE Hackathon

The four teams from Computing and Informatics College won the UAE Hackathon on country level. The hackathon was organized by Telecommunications and Digital Government Regulatory Authority (TDRA). We are so proud of them.

**Team#1:** Sham Al Khalaf is the Grand Winner of "UAE Hackathon 2023"

Sham Al Khalaf won first place in the Experts and Entrepreneurs Track at Hackathon UAE 2023.

**Project title:**

Mental Life ( UnityAi ).

Alumni UOS student - Bsc in IT Multimedia

Currently studying Masters of Sciences in Business Analytics at UOS.

**Team#2** from computer science won fifth prize in University Track

Abdullah Ziad Shahin Al-Mashhadani

Team name: Al-Mashhadani

Description: Waffir is an app the aims to reduced food waste in the UAE

**Team#3** from computer engineering won sixth prize in University Track

1- Tamara Ahmad Nasro

2- Maha Murad Khalil

Team name: Flybulance

**Description:**

We are computer engineers trying to solve the above mentioned challenge using artificial intelligence. Our main goal is to use available datasets to address the challenge. The emergency responder will get a call asking for an ambulance. if the caller is not the injured one, a message containing a link to capture the injury scene(including the injured person) will be sent. Meanwhile, there will also be an AI-based voice-capturing system. By using datasets we will train a model. It will be able to detect symptoms from the video or register them from voice. As a result, the case and its severity will be predicted in a very short time. This will assist the emergency responder to dispatch the ambulance with the only required resources. This classification process can prevent delays and ensure that patients receive the appropriate level of care as quickly as possible. It also helps in the allocation of resources, as emergency medical services can prioritize critical cases and allocate resources accordingly.

**Team#4** from computer engineering won eighth prize in University Track

1- Ibrahim Mohamed Ibrahim Elhaj

2- Abdel Rahman Ghassan Rafiq

3- Shahad Mohamed Firas Hawarna

4- Sarah Ismail Moien Ismail

5- Safaa Ahmad

Team name: Miles Ahead





## 7. Students Achievements

### 11th Annual NYUAD international hackathon for social good

The students Yaser Haitham Alesh and Meriem Aoudia from Computing and Informatics College participated and won in the 11th Annual NYUAD International Hackathon for Social Good. The Hackathon this year has focused on one of the most promising technologies of our time, Quantum Computing (QC). The event was held in person at NYUAD's Conference Center from April 27<sup>th</sup>, 2023, to May 1<sup>st</sup>, 2023.





## 8. Interview with Alumni

- What is your name?

Iman Ben Chaibah

- What is your major?

Computer Science

- When did you graduate?

2006

- What is your current career?

I founded a book publishing company, and an online magazine, and beside my companies I currently head the Community Engagement Department in the Sharjah Entrepreneurship Center (Sheraa) in which we cultivate relationships with startups and SME founders in Sharjah.

- How did the university prepare you?

I still sing praise of my education in UOS, and I always say that CS in UOS is one of the best programs in the country. CS helped my thinking process be strategized and structured that till day is the way I do my work. And I remember my professors were always very persuasive in telling us that we are not taught to be programmers or any just another computer degree, that are trained to be problem solvers and problems analysts, and they built that confidence and high self esteem in what we do and what we were educated on that till today this acts as our north star and I'm forever grateful.

- Can you give an advice for the current students?

Take every opportunity to learn so seriously, every extra bonus assignment is meant to hone your skills that will be in high demand after you graduate, and do take the time to do as many internships as you can so you learn more what working environments you prefer and what kind of work do you enjoy.



- What is your name?

Ashraf Isleem

- What is your major?

Computer Engineering

- When did you graduate?

2005

- What is your current career?

Lead System Analyst (Government Sector)

- How did the university prepare you?

with obtaining high standards of educational level, enhancing our team work skills and open our vision to think effectively and more efficient

- Can you give an advice for the current students?

University study is just the door step to the big market world in which you will have a variety of options based on the knowledge you have gained at the stage you are at now



## 8. Interview with Alumni

- **What is your name?**

Meshal Alhammadi

- **What is your major?**

BS. of Management Information System

- **When did you graduate?**

31 May 2007

- **What is your current career?**

I'm currently working as a director of resources and corporate communication department at Dubai Statistics Center. My role revolves around managing human resources mandate and both internal and external communications with our stakeholders.

- **How did the university prepare you?**

My education journey at the university took my learning to a totally new level. Besides the fact the academic learning becomes a more advanced and sophisticated system, the engagement that you have with the faculty members and your colleagues prepare you for the workplace with the one of the most important factors of success which is stakeholders management. In addition to that, the university nurtured our curiosity and led us to groom our critical thinking skills and problem-solving skills. Both play a major role when you work towards growing in your career.

- **Can you give an advice for the current students?**

As I mentioned, the learning you get from your life at university is a life changing experience. It is important that you concessionally benefit from each and every opportunity and never take them for granted. Your dedication towards your academic excellence is important as it is an indication to your future employer on how much of a hard working person you are, how much you care about excellence and how responsible you are towards your objectives.



## 9. Impactful Events

### AI Week

The College of Computing and Informatics and the College of Sciences organized a workshop on Empowering Education in Sciences using AI as part of the AI week. The workshop highlighted the importance and needs to use AI in different science fields, including Chemistry, Math, Physics, and Applied Biology. It also discussed the power of sciences, using AI in Community and Education through different presentations, talks from the two colleges, and invited international speakers.

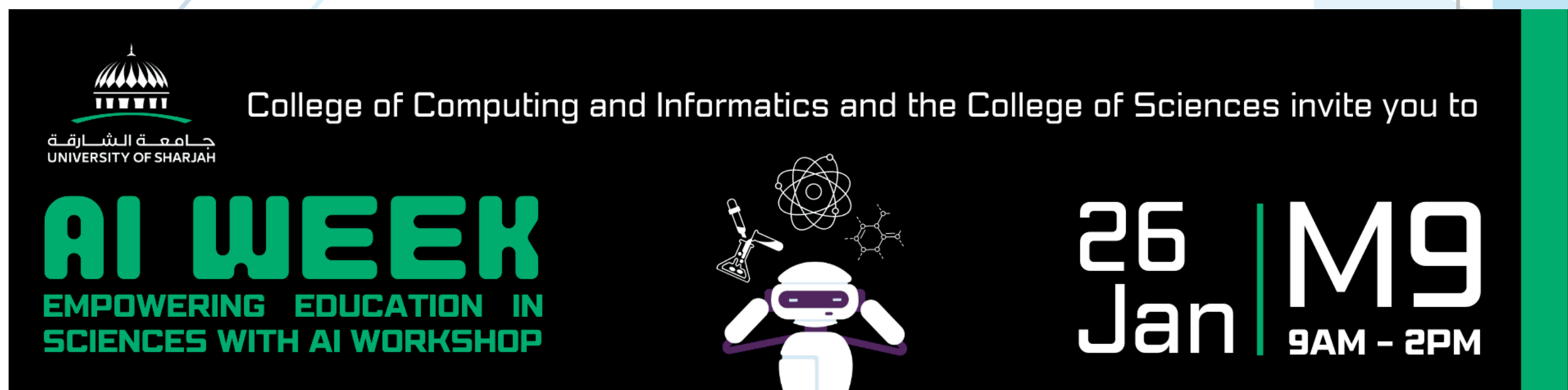
The Workshop included two keynote speeches and many interesting talks from distinguished local faculty from the two colleges and from Prestigious and international experts (University of Leicester, UK, KFUPM and KAUST, KSA) to share their experiences in sciences educations in the field of AI. The workshop also included panel discussion about opportunities and challenges of using AI on Community and Education in sciences field.

On side of the AI Week, the college kicked off an AI competition for the students to detect bugs in a code and to Reddit Science Comments using AI. The winners were announced in the end of this event.





## 9. Impactful Events





## 9. Impactful Events

### Cybersecurity week and the third symposium on E-Commerce and Cybersecurity

Experts from different academic fields gathered at the third symposium on E-Commerce and Cybersecurity to discuss the latest trends and innovations in these fields. The event was part of the Cybersecurity week and was held over two days and included keynote speeches, workshops, panel discussions, and a student competition.

On the first day, Prof. Sakir Sezer from Queen's University Belfast in the UK delivered a keynote speech titled "DPU Technology – Redefining next generation Datacenter Security." He discussed the importance of this technology in ensuring data center security in the face of increasingly sophisticated cyber-attacks. Prof. Xiaohui Yuan from the University of North Texas in the USA also gave a keynote speech on "Urban Intelligence toward E-Commerce" and discussed how this concept had the potential to revolutionize e-commerce.

The first day also included a workshop on Cybersecurity and E-commerce Applications, where faculty members from various colleges delivered speeches on their research in these fields. The day ended with announcing the winners of the first student competition on Technology Applications and Innovation 2023 (TAI2023).

The second day started with a panel discussion with the Sharjah Police Academy, which focused on the topic of "توظيف التقنيات الحديثة في مجال الدراسات الشرطية" (Employing Modern Technologies in Police Studies). The panelists discussed the benefits and challenges of using modern technologies in the field of law enforcement and police studies.

Later in the day, there was a seminar presented by Prof. Xiaohui Yuan, titled "Diving into scientific research: Secure Your Data and Results." He discussed the importance of secure data storage and management in scientific research and highlighted various methods and tools for protecting research data.

The second day concluded with a meeting with Cyber Wales, a non-profit organization dedicated to promoting cybersecurity innovation and collaboration in Wales.





## 9. Impactful Events





## 9. Impactful Events

### CCI - Open Day

The CCI open day featured multiple booths related to various aspects of computing and informatics. These booths provided students with opportunities to learn more about different areas of interest within the field.

One of the booths was focused on New Trends and Metaverse, which showcased the latest advancements in technology, including mixed reality. The Huawei booth provided information about the company and its products, as well as opportunities for high school students to learn more about careers in the technology industry.

Another booth was dedicated to the Google Development Student Club (GDSC), which provided information on the various projects and initiatives that the club is involved in. The Association for Computing Machinery (ACM) and the Institute of Electrical and Electronics Engineers (IEEE) student clubs also had their booths, where they highlighted their respective activities and provided information on how to get involved. The Computer Assembly booth provided participants with hands-on experience in assembling a computer from scratch.

The CCI booth showcased the various programs and courses available at the college, while the research booth provided information on ongoing research projects and initiatives. The admission Booth provided details on how to apply to the college, while the senior projects booth displayed some of the projects completed by senior students.

The event also featured two competitions: a programming competition sponsored by Huawei and a robotics competition sponsored by VEX. The event was aimed at introducing high school students to the world of computer science and technology and encouraging them to pursue careers in these fields.





## 9. Impactful Events





## 9. Impactful Events

### Made in CCI

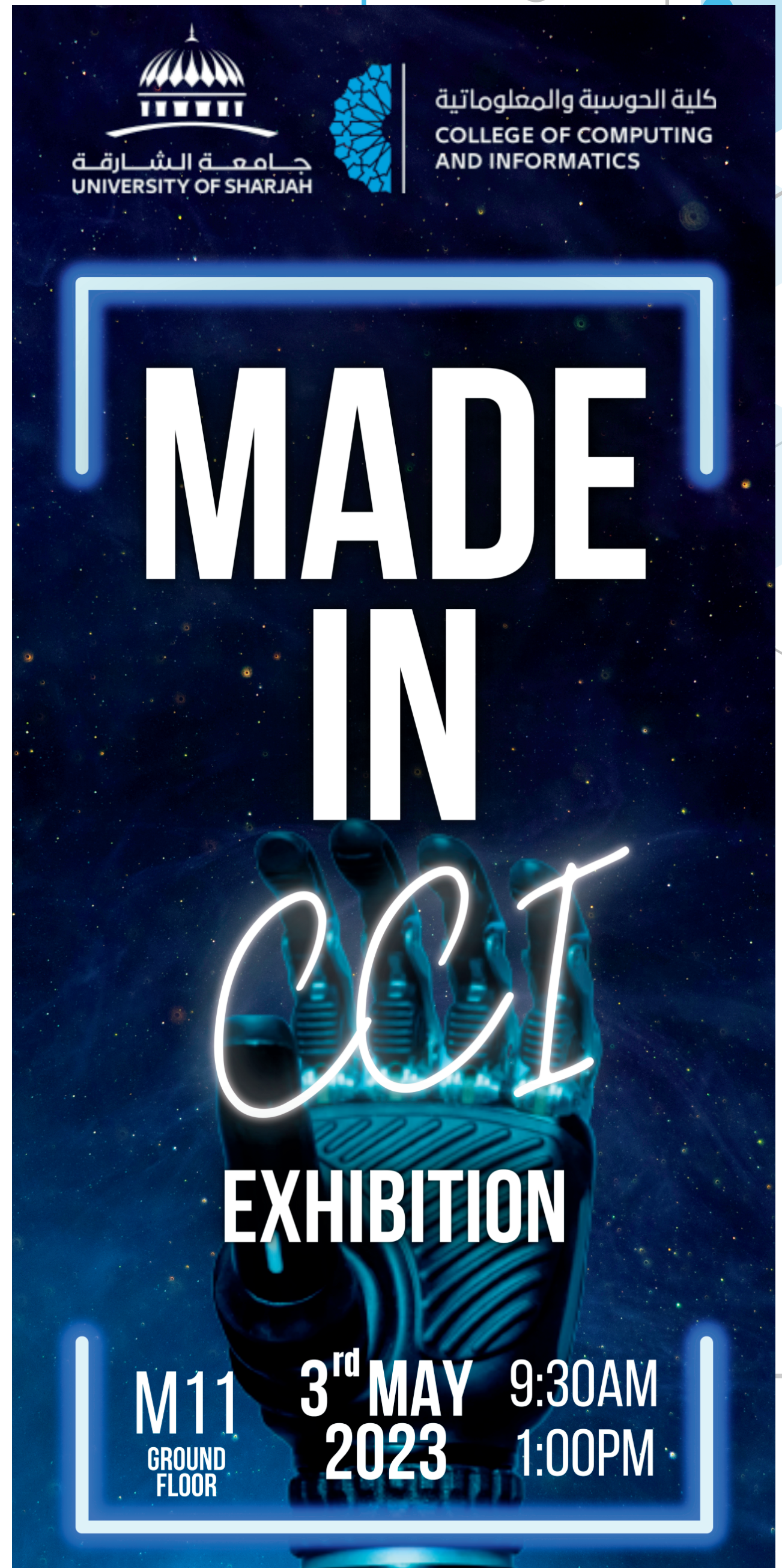
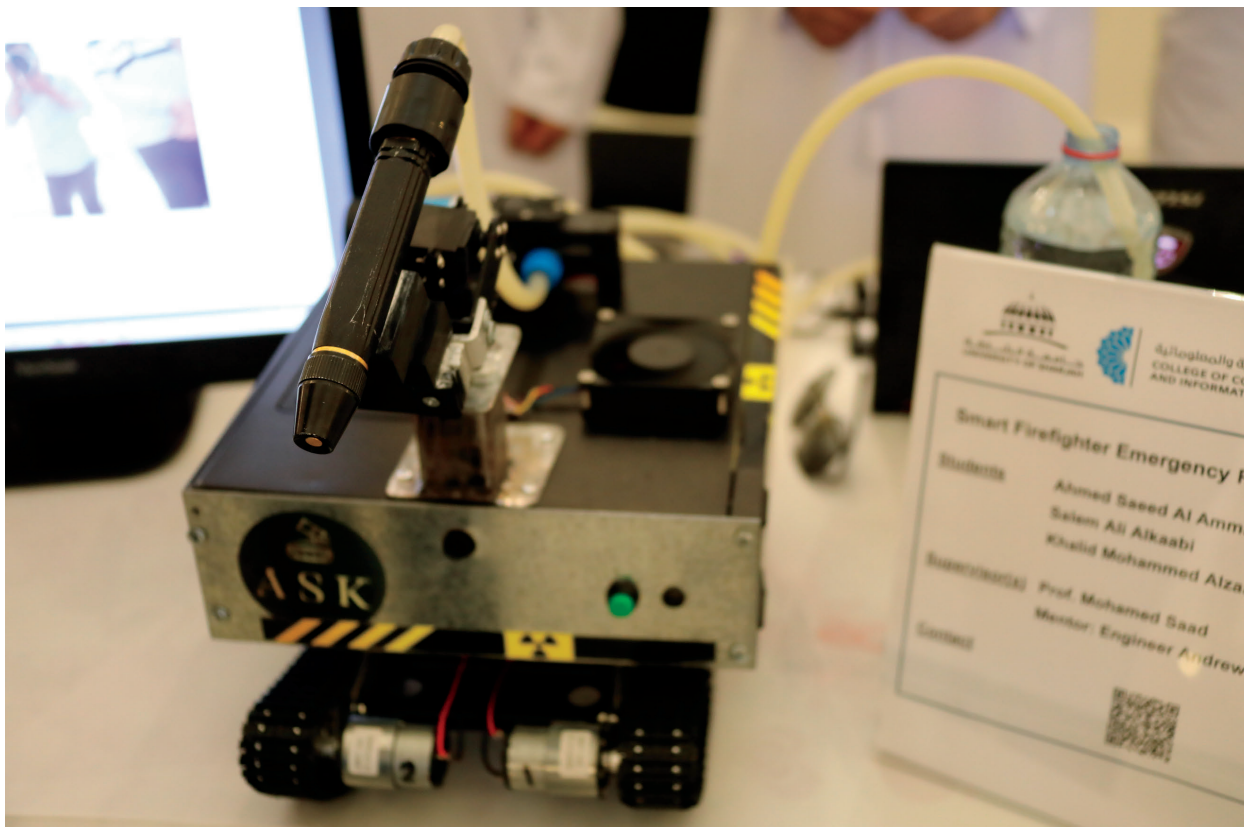
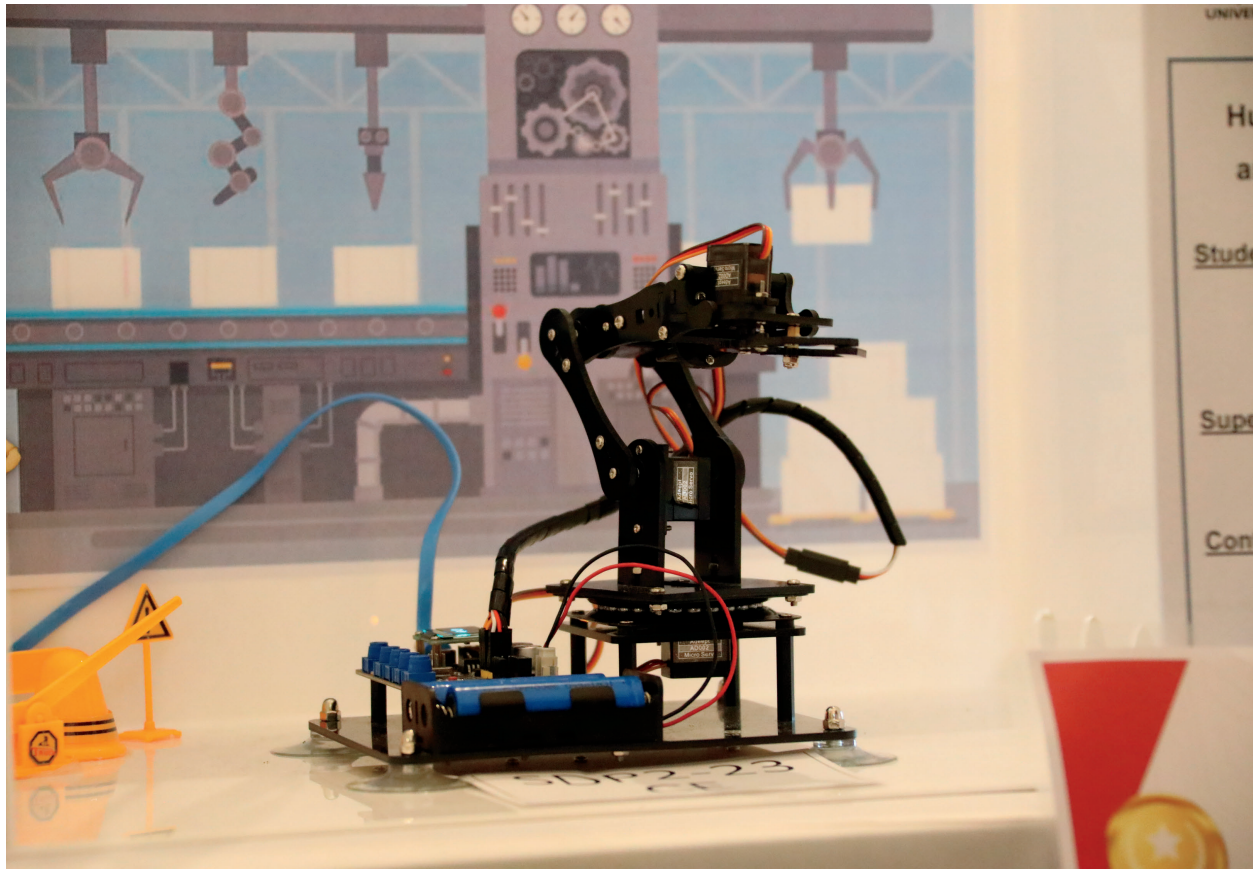
His Excellency, Prof. Dr. Hamid Al Naimiy, Chancellor of the University of Sharjah, inaugurated an exhibition of graduation projects for final-year students from the College of Computing and Informatics, which came under the slogan "Made in CCI". The exhibition was attended by several deans of the faculties, faculty members, and representatives of the companies and bodies cooperating with the college. Prof. Abbas Amira, Dean of the College of Computing and Informatics, emphasized the importance of organizing such events where graduation projects and their role in keeping up with all developments in order to present appropriate solutions in the field of computing and informatics. At the end of the exhibition, Prof. Yousef Haik, Vice Chancellor for Academic Affairs, honored the presented projects.

Students from the various departments of the college showcased 33 innovative projects: 19 from the Department of computer science and 14 from the Department of Computer Engineering. The project "Controlling a Robotic Arm Through Human Hand Gestures" won first place by students Maha Murad Khalil, Tamara Ahmed Nasro, and Sarah Obaid. The project "SurgoTech" won second place to help the surgeon by students Raghad Muhannad Al-Sheikh, Zainab Muhammad Abdel-Wahed, and Omnia Yasser Salem, and the project "Arabic Sign Language Interpreter Using Artificial Intelligence" won third place by students Hind Abdullah Al-Zarouni, Hessa Hassan Al Ali and Salma Abdullah. As for the Department of Computer Science, the project "Examination and Diagnosis of Attention Deficit Hyperactivity Disorder and Hyperactivity Disorder Using Electrocardiography and Artificial Intelligence" won first place for the students Aseel Ahmed, Hafsa Ahmed, and Raghad Yahya. The second place went to the "Smart Application to Find Parking" project, by student Omar Tahaina. The third place went to the project "Exposing Hatred in Arabic Texts on Social Media" by students Ramzi Khizar and Abdel-Rahman Abdel-Basit.





## 9. Impactful Events





## 9. Impactful Events

### UOS Open Day

The College of Computing and Informatics (CCI) actively participated during the University of Sharjah Open Day, showcasing its six majors: Computer Sciences, Computer Engineering, Cybersecurity, Biomedical Informatics, IT Multimedia, and Information Systems. The college staff and faculty enthusiastically demonstrated the unique features and opportunities provided by each program, offering valuable insights to interested students and parents. Moreover, the event went beyond showcasing the academic programs and delved into the students' extracurricular activities in robotics and their impressive projects. Attendees had the chance to witness the students' passion for robotics and the practical application of their skills. Additionally, the open day highlighted the exciting advancements in VR technologies through student projects that showcased immersive experiences and potential real-world applications. This comprehensive exhibition of CCI's majors, student activities, and technological innovations empowered prospective students to make informed decisions about their future studies at CCI College.





## 9. Impactful Events





## 9. Impactful Events

### College of Computing and College of Communication Joint Sr. Project Exhibition in the Metaverse.

Under the Patronage of His Highness Sheikh Sultan bin Ahmed Al Qasimi Deputy Ruler of Sharjah, President of the University of Sharjah, and as part of several cross-colleges initiatives in the University, the College of Computing in collaboration with the College of Communication presented their first Joint Sr. Projects Exhibition in the metaverse.

The initiative was strongly encouraged by the Dean, Prof. Abbas Amira, and led by Dr. Mohammad Lataifeh with the help of volunteering students from the college, Ms. Ranim Hilal Abu Shamlih and Ms. Sana Awad Samhan who facilitated the virtual tours for the visitors.

Several media outlet expressed their interest in reaching out to the colleges for similar projects which we believe is a positive

move toward further ties and further relationships with the local industries and community at large.





## 9. Impactful Events

### Workshop on "Introduction to Entrepreneurship Startup Fundamentals"

The College of Computing and Informatics organized an exciting and informative workshop on "Introduction to Entrepreneurship Startup Fundamentals" in collaboration with Sharjah Entrepreneurship Center (Sheraa) on May 1<sup>st</sup>, 2023.

The workshop provided participants with valuable insights into the world of entrepreneurship, allowing them to understand its importance and explore the potential of their startup ideas. Through hands-on exercises and practical examples, attendees had the opportunity to create a viable business model using the renowned Business Model Canvas framework. Additionally, the workshop equipped participants with the knowledge and skills needed to develop effective marketing strategies and acquire customers successfully.





## 9. Impactful Events

### Program Evaluation and Continuous Improvement

The workshop focused on Program Design, Course Design, Course Evaluation, and Program Evaluation. The event provided attendees with valuable insights and practical strategies to enhance their program development and evaluation practices.

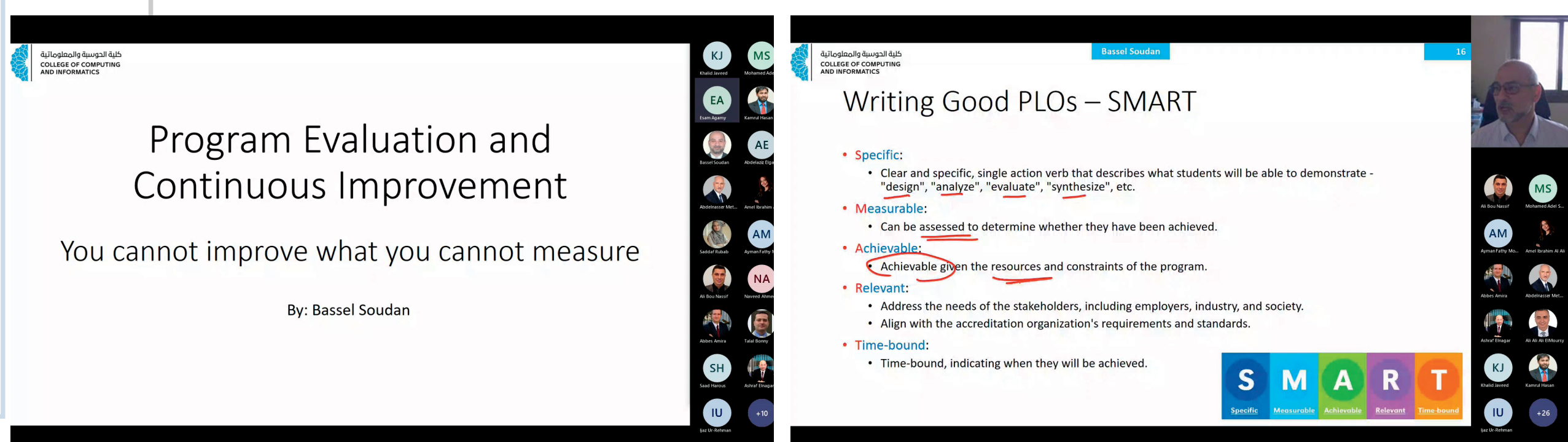
The workshop kicked off with Program Design, where participants learned how to craft effective programs from inception to implementation. Through real-world examples, attendees gained a deeper understanding of establishing clear objectives, defining learning outcomes, and structuring curriculum to maximize impact.

Following Program Design, the workshop delved into Course Design, exploring innovative approaches to create engaging and learner-centric learning experiences. Then, the workshop covered the important topic of Course Evaluation, where participants learned the importance of gathering feedback and assessing the effectiveness of instructional strategies. Various evaluation methods were discussed, such as surveys, and performance assessments. The aim was identifying strengths, addressing weaknesses, and making data-driven improvements to the courses.

The workshop concluded with a comprehensive session on Program Evaluation, emphasizing the significance of assessing the overall impact and success of educational programs. The workshop covered and explored techniques to collect and analyze data, track long-term outcomes, and leverage evaluation findings to drive continuous improvement.

The workshop provided a valuable platform for knowledge sharing among participants. Overall, the workshop was a big success, equipping participants with valuable insights and practical strategies. Attendees left the workshop empowered to apply their newfound knowledge in their respective roles, ultimately enhancing their program development and evaluation practices.

We extend our gratitude to the workshop facilitator for his expertise and engaging delivery. His commitment to sharing his knowledge and supporting the professional growth of the attendees was evident throughout the workshop.

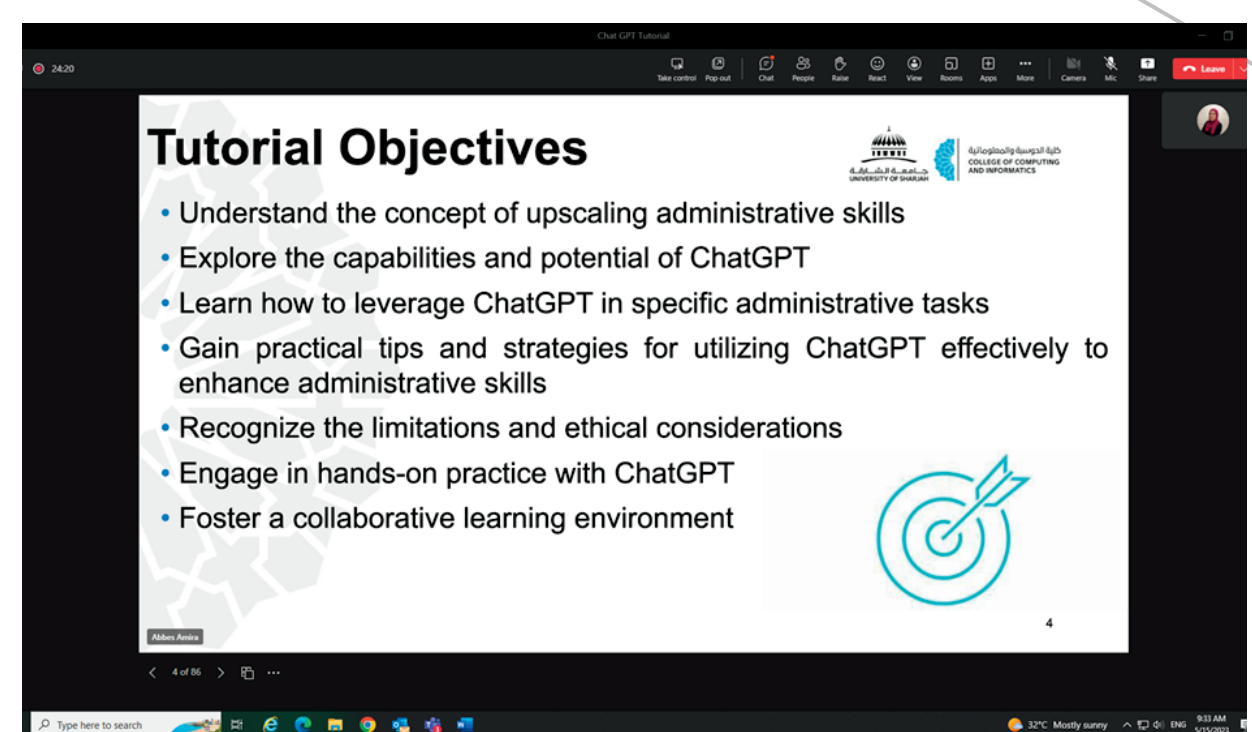
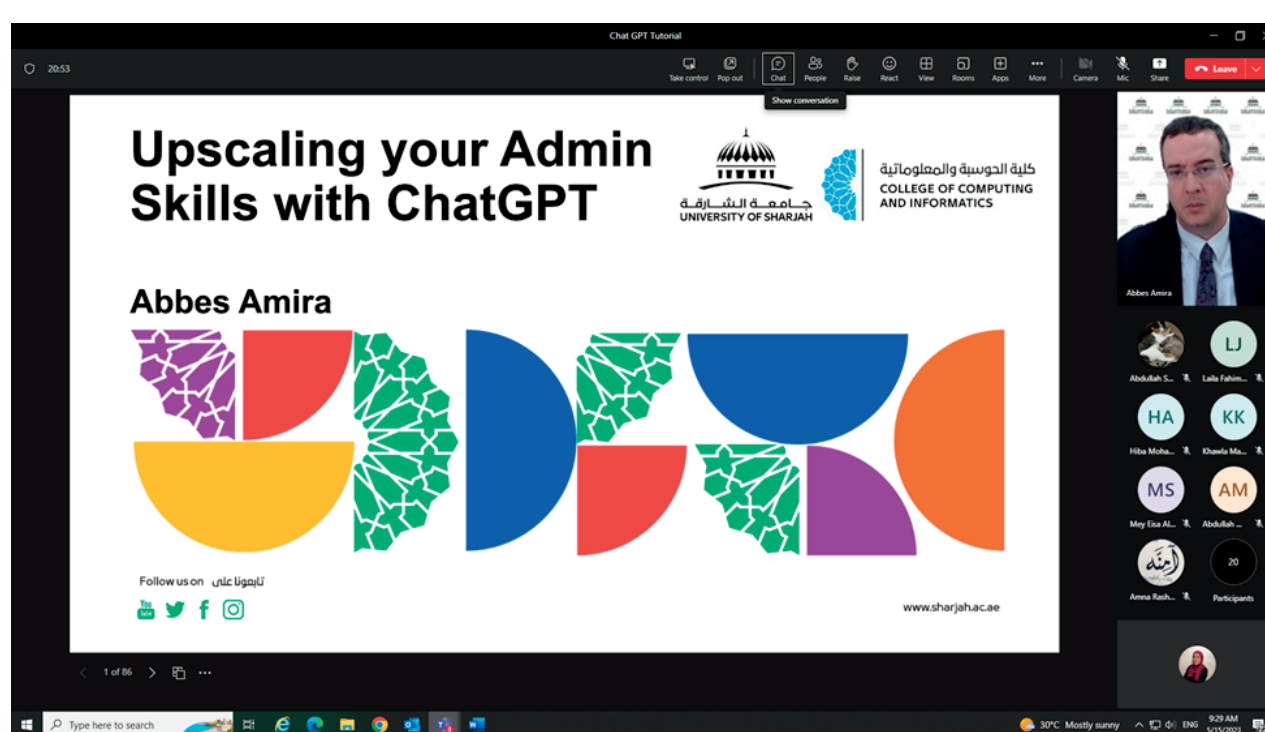




## 9. Impactful Events

### Tutorial on: "Upscaling your Admin Skills with ChatGPT"

Prof. Abbas Amira, Dean of the College of Computing and Informatics, conducted a tutorial on upscaling admin skills using generative AI tools such as ChatGPT for the University Admin staff. The tutorial focuses on the utilization of Chatgpt and its potential to enhance the quality of daily admin tasks. The tutorial specifically focused on leveraging Chatgpt for improved communication and email management, task management, data analytics and reporting. The training session drew attendance from various administrative staff members, including those from the Chancellor's office, HR, IT, and other departments across the university.



### Industry expert speaker

This event is an industry expert speaker event where we invited an expert from the industry to talk to the students about the workplace and to give them guidance and enlightenment that is essential for their future careers. The event is meant to inspire and motivate the students to take the right decisions regarding their career choices and to show them how to create and utilize opportunities. Our speaker Dr. Amna highlighted the main important milestones in her career path and how determination and quick decision-making helped her to escalate and reach the maximum in her career and her performance.





## 10. Future Events

### Artificial Intelligence National Championship (AINC) 2023

The College of Computing and Informatics, in partnership with the Ministry of Education, is proud to announce the launch of the AI National Championship on 23<sup>rd</sup> & 24<sup>th</sup>, September 2023. The championship will feature an exciting 22 competitions of robotics, programming, and AI thematic categories for school students, offering a platform for them to showcase their skills and compete against their peers. The winners of the competitions will qualify to participate in international competitions, representing their schools and the UAE on a global stage.

This project is an ongoing initiative, and we are delighted to have all of our college staff and faculty working with us to make it a success. leveraging their expertise in the field of Robotics and AI to develop innovative and challenging competitions for the students.

The National AI Series competitions are a crucial part of our efforts to promote the development of AI technologies in the UAE and to support the next generation of AI innovators. We are excited to welcome students from across the UAE to participate in this event and showcase their skills and creativity.

The University of Sharjah is committed to providing a supportive and nurturing environment for students to learn, innovate, and excel. We are proud to be a partner with the Ministry of Education in this initiative and look forward to seeing the exciting innovations and ideas that will emerge from the National AI Series competitions.



سلسلة الذكاء الاصطناعي  
Artificial Intelligence Series

UNITED ARAB EMIRATES  
MINISTRY OF EDUCATION



الإمارات العربية المتحدة  
وزارة التربية والتعليم



كلية الحوسبة والمعلوماتية  
COLLEGE OF COMPUTING  
AND INFORMATICS



# 11. Emerging Technologies Around The UAE

## Blockchain for secure healthcare systems in UAE

UAE has been an innovator in the adoption and implementation of blockchain technology. The government has recognized the potential of this distributed ledger technology to revolutionize various industries and has been investigating its application in many different fields.

The Dubai Health Authority has introduced a blockchain-powered system for sharing patient data in the healthcare industry. The platform enables healthcare providers to securely access patient records, reducing the likelihood of data breaches and enhancing patient care.



The UAE's adoption of blockchain technology has been motivated by its commitment to innovation and its recognition of the transformative potential of this technology across multiple industries. By leveraging the advantages of blockchain technology, the UAE is well-positioned to improve the efficacy, transparency, and security of numerous processes and services, ultimately benefiting its citizens and enterprises.



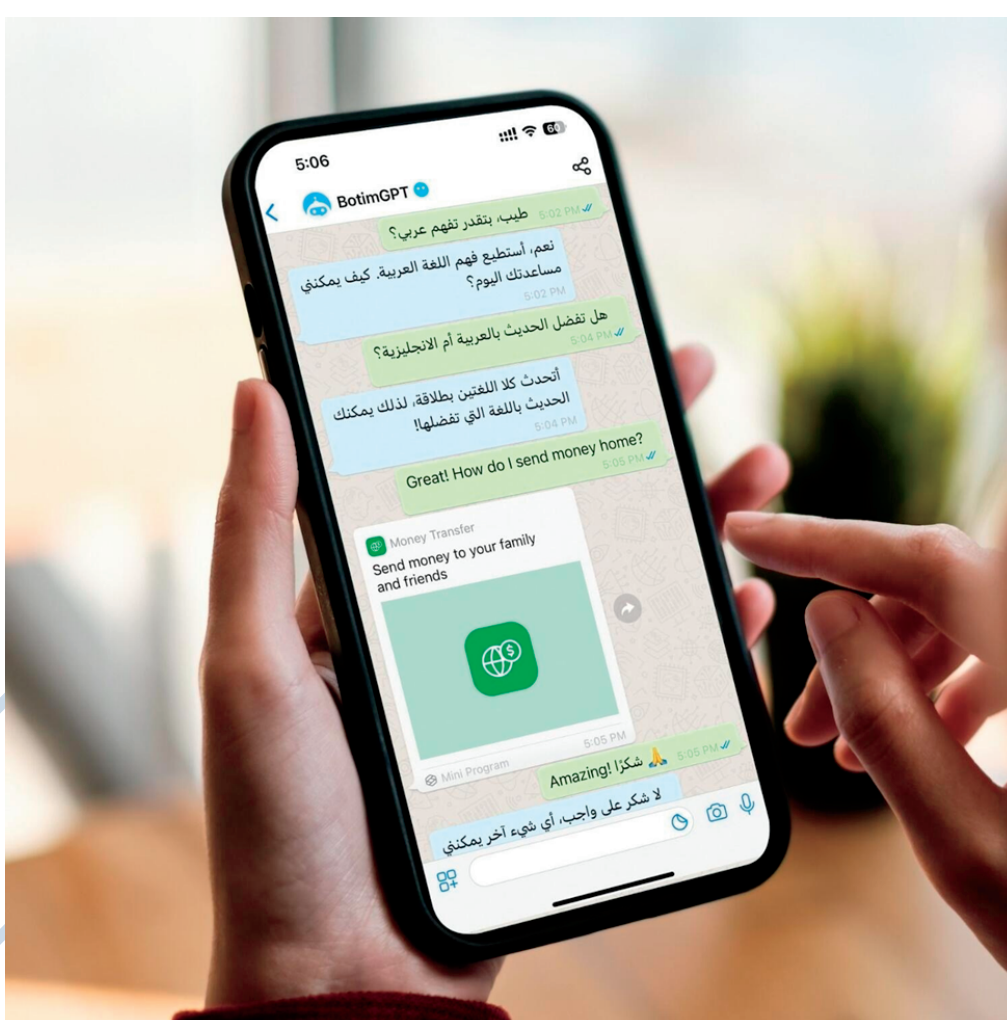
# 11. Emerging Technologies Around The UAE

## Drones to drop 2.5 million mangrove seeds in Abu Dhabi

Mangroves have the potential to serve as a natural barrier against the detrimental effects of climate change. They aid in preventing erosion, stabilizing coastlines, fostering biodiversity, and considerably improving the quality of life for future generations in the area. Drones are used to plant 2.5 million mangroves along coastline of Abu Dhabi considered to be a living defence to reduce the impact of climate change. The initiative aims to extend this to 10 million seedlings by 2030. In just eight minutes, the drones are capable of dispersing around 2000 seeds.



## UAE gets first-ever arabic ChatGPT-like bot



The popular AI chatbot ChatGPT has an Arabic adaptation that has been launched by a business in the UAE and is incorporated into the free calling app Botim. It promises "a new age of AI-driven solutions in the region" and is initially only accessible to a small number of Botim users. All Botim services will be supported by Botim's Arabic ChatGPT, an AI-powered platform that will source the most recent data from local marketplaces to guarantee that the information supplied is always up-to-date and correct. It will include functions like bill paying, e-commerce, international money transfers, and weather checks. Users can type their questions into the chat window, and the model will parse them and provide source URLs (web addresses) that will take users to further details about the services they are interested in.

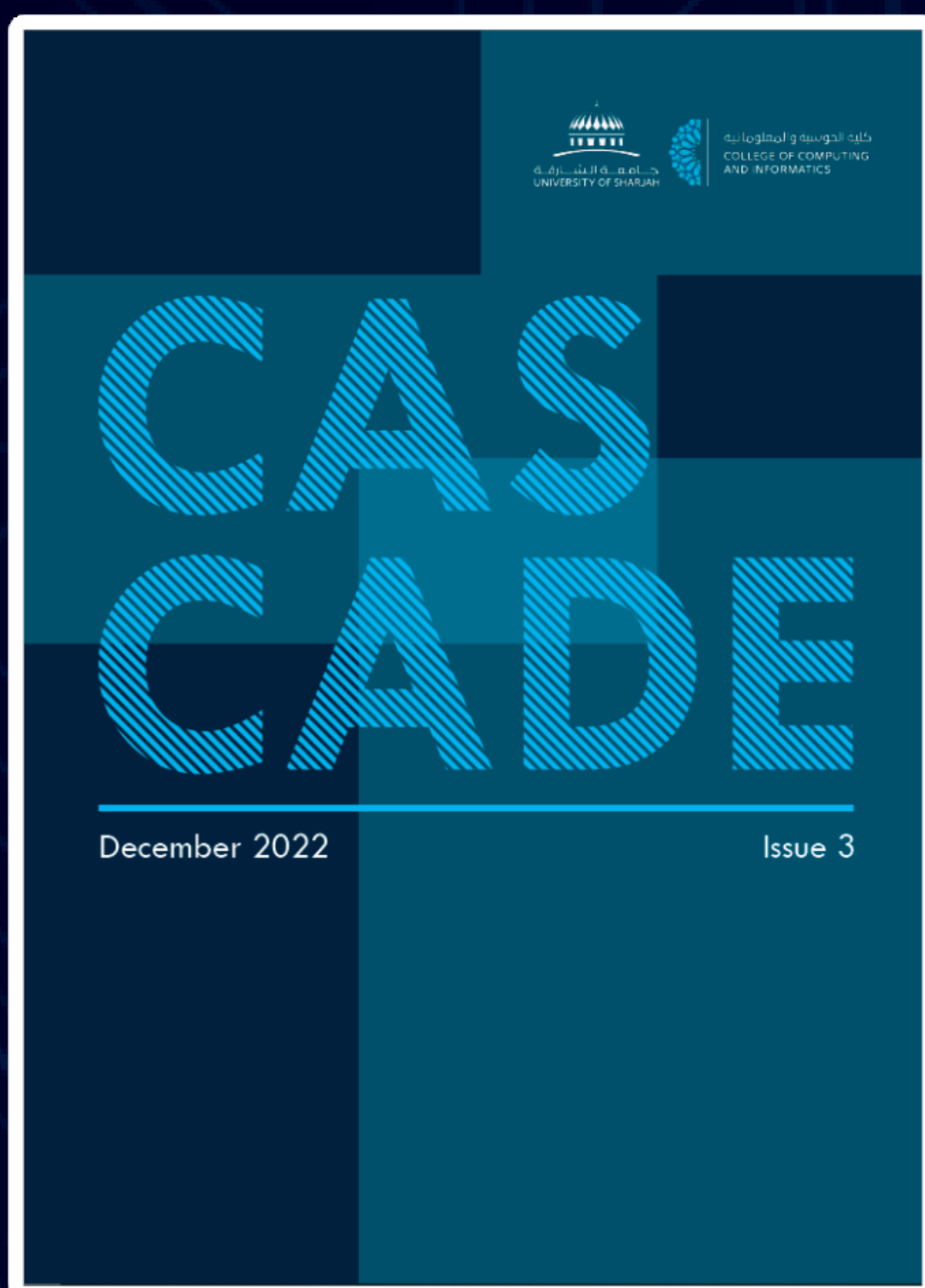


## Ramadan Iftar Gathering of the CCI Family





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